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F. H. EBELING  
SYRACUSE, N.Y.

U. S. DEPARTMENT OF AGRICULTURE  
1921 ★



FIELD OF GOLDEN SELF-BLANCHING CELERY GROWN FROM OUR SEED  
BY MR. A. WOODING, CLAY, R. F. D. No. 2

SEEDS, HARDWARE, IMPLEMENTS. Annual Catalogue.

53<sup>RD</sup>

A WORD OF APPRECIATION

This makes the 53rd year in which we have served Central New York people in helping them to make an annual success of their harvests.

The fact that the children and grandchildren of my first customers are now my regular patrons, proves that the house of Ebeling has not only won but has held the complete confidence of its customers.

For 53 years our policy has been to import, contract for and handle only the highest grade seeds, bulbs, and supplies for the farm, garden, greenhouse, lawn, dairy or poultry yard.

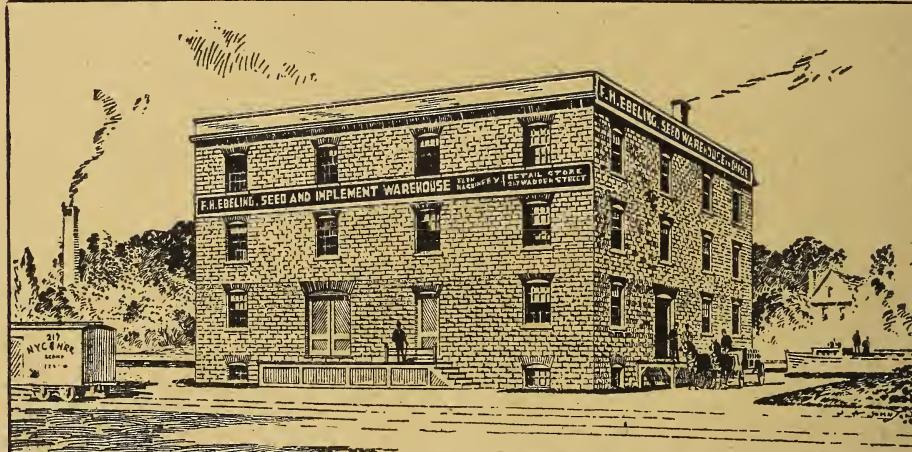
We wish to take advantage of this opportunity to thank you, the reader, for the kind words in our behalf that you have extended to your friends and neighbors. It is valued far more than the profits of the business to which it has contributed. As a result of your co-operation, the year just passed has proved most successful.

Assuring you that my heartiest hope is that this, my latest Catalog and Seed Book, will in turn more than do its share to make your 1920 the happiest and most prosperous of all years, I remain

Yours very truly,

January 1, 1921.

F. H. EBELING.



F. H. EBELING'S SEED AND IMPLEMENT WAREHOUSE, 538-540 CANAL STREET,  
RETAIL STORE, 217 WARREN STREET

USEFUL TABLES

Of Plants per Acre at the following distances apart.

$\frac{1}{2}$ ft. by 1 ft.	43,560	6 ft by 6 ft.	1,210
$\frac{1}{2}$ ft. by 1 $\frac{1}{2}$ ft.	19,360	8 ft. by 8 ft.	680
1 ft. by 1 ft.	21,780	9 ft. by 9 ft.	537
1 ft. by 2 ft.	10,898	10 ft. by 10 ft.	435
2 ft. by 2 ft.	6,969	12 ft. by 12 ft.	302
2 ft. by 1 ft.	14,520	15 ft. by 15 ft.	193
2 ft. by 2 ft.	7,260	18 ft. by 18 ft.	134
3 ft. by 3 ft.	4,840	20 ft. by 20 ft.	103
4 ft. by 4 ft.	2,722	25 ft. by 25 ft.	70
5 ft. by 5 ft.	1,742	30 ft. by 30 ft.	48

SEED SOWN PER ACRE

Seed Sown per Acre

Weight per bu.

Alfalfa, or Lucerne 20 to 30 lbs.	60 lbs.
Barley, 1 $\frac{1}{2}$ to 2 bu.	48 lbs.
Beans, Field, $\frac{1}{2}$ to $\frac{1}{2}$ bu.	60 lbs.
Beans, Green Soy, $\frac{1}{2}$ bu.	60 lbs.
Beet, 4 to 6 lbs.	14 lbs.
Blue Grass, 2 bu.	14 lbs.
Bromus Inermis, 20 lbs.	14 lbs.
Buckwheat, 1 to 1 $\frac{1}{2}$ bu.	48 to 50 lbs.
Cabbage, $\frac{1}{2}$ lb.	20 lbs.
Carrot, 2 $\frac{1}{2}$ to 3 lbs.	20 lbs.
Clover, Alsike, 5 to 10 lbs.	60 lbs.
Clover, Crimson, 15 lbs.	60 lbs.
Clover, Red, 10 to 15 lbs.	60 lbs.
Clover, Sweet, 25 lbs. Melilotus Alba	60 lbs.
Clover, White, 10 to 12 lbs.	60 lbs.
Corn, Ensilage, $\frac{1}{2}$ to $\frac{1}{2}$ bu.	56 lbs.
Corn, Field, $\frac{1}{2}$ bu.	56 to 60 lbs.
Corn, Sweet, $\frac{1}{2}$ bu.	about 45 lbs.
Cucumber, 1 lb.	
Lawn Seed, 1 lb to 250 sq. ft.	25 to 30 lbs.
Meadow Fesene, 2 bu.	22 lbs.
Meadow Foxtail, 3 bu.	7 lbs.
Meadow Grass, Rough Stalk, 35 lbs.	18 lbs.
Flax Seed, $\frac{1}{2}$ to $\frac{1}{2}$ bu.	56 lbs.
Millet, $\frac{1}{2}$ to $\frac{1}{2}$ bu.	50 lbs.

Number of Plants Produced from 1 oz. of Seed.

Plants	Plants
Asparagus about 500	Kale . . . about 2,000
Broccoli . . . 2,000	Leek . . . " 1,000
Cabbage . . . 8,000	Lettuce . . . " 3,000
Cauliflower " 4,000	Pepper . . . " 2,000
Celery . . . 4,000	Sage . . . " 1,000
Egg Plant " 1,000	Tomato . . . " 3,000
Endive . . . 8,000	Thyme . . . " 5,000

SEED SOWN PER ACRE

Seed Sown per Acre

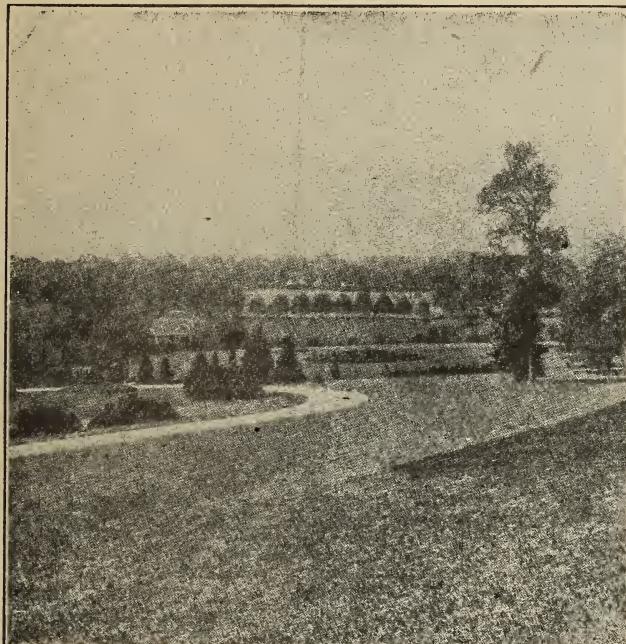
Weight per bu.

Millet, Hungarian, $\frac{1}{2}$ to $\frac{1}{2}$ bu.	48 lbs.
Millet, Japanese, $\frac{1}{2}$ bu.	32 lbs.
Oats, 2 to 3 bu.	32 lbs.
Onion, 5 to 6 lbs.	56 lbs.
Orchard Grass, 2 bu.	14 lbs.
Peas, Field, 2 $\frac{1}{2}$ bu.	60 lbs.
Peas, Cow, $\frac{1}{2}$ bu.	about 50 lbs.
Peas, Wrinkled,	about 50 lbs.
Potatoes, 6 to 8 bu.	60 lbs.
Pumpkin Seed, 4 qts.	27 lbs.
Rape, Dwarf Essex, 4 to 6 lbs.	50 lbs.
Red Top, Recleaned, 15 lbs.	30 lbs.
Rye, 1 to 2 bu., Winter and Spring	56 lbs.
Sorghum, $\frac{1}{2}$ to 2 bu.	56 lbs.
Spinach, 8 to 10 lbs.	22 lbs.
Squash, 2 $\frac{1}{2}$ lbs.	11 lbs.
Sweet Vernal, 1 to 1 $\frac{1}{2}$ bu.	45 lbs.
Timothy, $\frac{1}{2}$ to $\frac{1}{2}$ bu.	
Turnip, 1 lb.	
Vetch, Hairy, drilled (plus 1 bu. small grain) 25 lbs.	60 lbs.
Vetch, Hairy, broadcast (plus 1 bu. small grain) 75 lbs.	60 lbs.
Vetch, Spring (plus 1 bu. small grain) 25 lbs.	60 lbs.
Wheat, 2 bu., Winter and Spring	60 lbs.

NON-WARRANTY.—F. H. Ebeling gives no warranty, express or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs or plants he sends out, and he will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

## EBELING'S EXTRA LAWN GRASS MIXTURE

This mixture will insure a beautiful, compact, evergreen sod on any lawn where the essential requirements of grass culture have been complied with. Its component parts are the grasses peculiarly adapted to lawns and door yards, including choice selected strains of Kentucky Blue, etc., along with the best known creeping or sod forming sorts. We have included a little white clover in the mixture, regarding it as essential. Full provision is made for a succession of growth, so that there shall be no break in the richness of the verdure from spring until autumn, and experience proves that Ebeling's Extra Lawn Grass Mixture is now perfect. Nothing better can be purchased on the American market, no matter what claims may be advanced by other seedsmen. This is because we employ the choicest and heaviest strains of grass seed in making the mixture. As to preparation of the soil, we recommend a thorough working and manuring to a depth of 8 or 9 inches, and a regular semi-annual application of top dressing afterward. It is a good practice to use Sheep Fertilizer and Ground Bone in the spring and fall; also, to renovate the lawn every spring with a little fresh seed. Per lb. 30c. Special price for quantity.



### How to Make a Lawn

Have soil thoroughly spaded up, enriched with commercial fertilizer or well rotted manure, level and roll it well to make compact. Select a still, damp day for seeding; sow one-half of the seed from north to south and half from east to west, rake it over and roll again. When grass comes up re-seed the bare spots. When grass is 2 inches high cut it, and as necessary thereafter. Don't rake up short clippings, as they make a good mulch. Always thoroughly soak a lawn when sprinkling, whenever required, but never sprinkle lightly.

**QUANTITIES TO USE**  
For 300 sq. ft. .... 1 lb.  
For 1500 sq. ft. .... 5 lbs.  
For 3000 sq. ft. .... 10 lbs.  
For one acre .... 100 lbs.

For renovating old lawns about half the above is sufficient.

**GROUND BONE.** Excellent for grass plots, gardens, etc. 5 lbs. 25c; 25 lbs. \$1.00; 50 lbs. \$1.75; 100 lbs. \$3.00.

**SHEEP MANURE, PULVERIZED.** (Wizard Brand.) A pure natural manure, unequaled for mixing with potting soil, for lawns, general vegetable and flower garden fertilizer. 5 lbs. 25c; 10 lbs. 40c; 25 lbs. 85c; 50 lbs. \$1.75; 100 lbs. \$3.50.

**HARDWOOD ASHES.** Indispensable as a lawn dressing, or to apply to orchards. Should be applied late in fall or early spring. 5 lbs. 20c; 10 lbs. 35c; 25 lbs. 60c; 100 lbs. \$2.50.

**LAND PLASTER.** Much used in composting or mixed with guano, etc. 100 lbs. \$1.25.

**LIME (Hydrated).** For lawn and field use where the ground has become sour. 50 lbs. 85c; 100 lbs. \$1.75.

**BOWKER'S PLANT FOOD FOR HOUSE PLANTS.** (Odorless.) The best Plant Food on the market. May be used either dry or liquid. Especially fine for ferns. Price. 15c per pkg.

**BLOOD.** (Dried.) One of the quickest acting fertilizers, being immediately soluble. 5 lbs. 30c; 25 lbs. \$1.50; 100 lbs. \$4.50.

**SALT, AGRICULTURAL.** For topdressing asparagus beds. Apply very early in spring at the rate of 800 to 1000 pounds per acre.

**SCOTCH SOOT.** (Genuine Imported.) Gardeners know the value of the genuine article for stimulating a healthy growth of dark green foliage, and its beneficial effect in freeing the soil from slugs, grubs and cut worms.

**TOBACCO STEMS.** An indispensable lawn covering for winter. It not only acts as a protector, but imparts large quantities of ammonia and drives away insects and moles. Bale, \$1.00 to \$2.50.

**NITRATE OF SODA.** A fertilizer for all crops. It is very quick in action and hastens maturity of crops fully two weeks. Being quickly soluble, it should not be applied until the plants are above ground. 5 lbs. 75c; 25 lbs. \$3.00; 100 lbs., \$8.00. Large quantities, prices on application.

**ANGLEWORM REMEDY.** One teaspoonful Corrosive Sublimate in 3 gal. of water. Sprinkle on the ground affected by worms, which forces them out and then can be raked up.

## TESTIMONIALS

My Dear Mr. Ebeling.

I enclose check for the seed I purchased of you this season with which I was very well pleased indeed. Have had splendid results from all of them

Frankfort, N. Y., Sept. 2, 1919.

RALPH J. OWENS.

Mr. F. H. Ebeling,

Dear Sir: Very pleased to say that the seed corn purchased of you last spring tested fine and every kernel grew. I enclose check for the corn.

Deer River, N. Y.

RUTH V. ALLEN.

Mr. F. H. Ebeling,

Dear Sir: I was very well pleased indeed with your seeds and will send you another order for 1920.

Madison, N. Y., Oct. 27, 1919.

Yours very truly, KARL SPOONER.

F. H. Ebeling,

Dear Sir: Enclosed find check for seeds we purchased of you last spring. The seeds were all good and we expect to place our order early for our next year's seeds.

E. W. BROWN.

Mr. F. H. Ebeling, Syracuse, N. Y.

Dear Sir: I grew 1040 bushels of "Half-long Danvers Carrot" on one acre and sold the crop for \$510.00. Also raised 600 bushels Yellow Globe Danvers Onions per acre on ten acres, and sold them for \$10,000. These crops were grown from your seed. Since then onions have sold for \$1.00 per bu. higher, which would have netted me \$15,000 instead of \$10,000 had I held them until now. A. WOODING, Onondaga Truck Farm, Clay, N. Y., R. F. D. 2.

Dear Mr Ebeling:

When in your office last week I intended telling you about my experience with the "Sweepstakes" or "Early Wonder Corn" you sold me last April, as I consider it worth knowing about. Owing to the labor situation and unusual wet spring, our tenant did not plant until the week of July 4th, and on Labor Day it was ready to put in the silo, although we made all manner of fun at the tenant's thinking he could even get his seed back. I advised his putting in barley, but he "stuck it out" and later on "won it out" to the surprise of myself and the neighbors.

Yours very truly, A. M. THAYER, Supt.

Oak Hill Farms, Canastota, N. Y., Dec. 9, 1919.

F. H. Ebeling, Esq., Syracuse, N. Y.:

I feel that I ought to say a word or two about the Seed Corn purchased from you this past Spring.

We planted 110 acres, about half of it of each, Yellow Leaming and Pride of the North. We are now cutting it, and yesterday one of the International Harvester Company was at the farm to start a new harvester, and he told me he had never seen finer corn in his life. He cut off several stalks measuring 15 feet high, and on some the ears are eight and nine feet from the ground.

I have many times been through the great corn belt of the West and never in my life saw a better crop of corn.

Tioga Point lies between the Susquehanna and Chemung Rivers, and is where the latter flows into the former, and some of the greatest battles between the white man and the Indians were fought here in the early days.

THOMAS C. WARD.

Mr. F. H. Ebeling,

Dear Sir: The package of Ideal Beet Seed which I received from you last spring was sufficient for two rows through my lot, which I placed at three feet apart. The seed germinated well, and I thinned them out so the plants were about 12 inches apart in the row. I gave them the usual cure that any good farmer does to grow a good crop of corn or potatoes, but did not use any commercial fertilizer. Harvested over 4,000 lbs. of nice large Mangel Ideal Beets from these two rows, which were one-twentieth of an acre. One man pulled and thinned the same in less than three hours.

I consider the "Ideal Mangel Beet" the best of all the Mangel varieties.

CHARLES B. DAY.

Frank Bradford, Skaneateles, N. Y., R. F. D. 3, says this regarding our Alfalfa:

"Your seeds purchased this season were all as represented, and the Alfalfa was the finest I have ever seen. I sowed it with a bushel and a half of Oats to the acre, and when I cut the Oats the Alfalfa was as tall as the Oats, and now has a good start again."

Mr. F. H. Ebeling.

Dear Sir—The Alberta Cluster Oats purchased of you last spring were more than satisfactory and yielded seventy bushels to the acre. There was at least five bushels per acre on the ground, owing to the fact that I was obliged to mow them with a mowing machine. This shows the value of high quality seed oats. My neighbors threshed from thirty to fifty bushels per acre, which indicates more clearly the value of your splendid "ALBERTA CLUSTER OATS".

Yours very truly,

F. M. CUDEBEC.

Mr. F. H. Ebeling:

Dear Sir—The seed we had from you this season gave splendid satisfaction and we were very much pleased with same, and I enclose check.

Potsdam, N. Y., R. F. D. 2.

THOMAS O. PALMER.

Mr. F. H. Ebeling:

Dear Sir—The seed we had of you this season have given the most perfect satisfaction and I am enclosing check for same.

Gouverneur, N. Y., Sept. 2, 1918.

Very truly, G. W. SPALSBURY.

My dear Mr. Ebeling:

I am mailing you one peck of Alberta Cluster Oats raised from the seed purchased from you last spring. I had one acre of these oats that I took extra care of, using 240 pounds of fertilizer and one ton of limestone. This acre yielded 91 bushels of fine Alberta Cluster Oats. I expect to have fifteen acres of just the same as this one acre the coming season of 1919.

Yours very truly,

L. U. BENJAMIN.

Richford, Tioga Co., N. Y., Dec. 21, 1918.

F. H. Ebeling, Syracuse, N. Y.

The seeds arrived in fine shape and just as I ordered. I cannot speak too highly of your seeds and hope to do business with you in the future.

EARL T. ROBERTS.

Mr. F. H. Ebeling:

Last spring I purchased 24 bushels of Alberta Cluster Seed Oats and threshed 934 bushels from this field. These oats were the best we have ever grown and yielded more than double over the ordinary varieties. Based upon the weight of over 40 pounds to the bushel, you can readily see that the yield is remarkably large. I would recommend the Alberta Cluster Oats to all farmers. The straw stands up strong and stiff—thick meats and thin shells—valuable assets in oat raising, as well as money makers.

Yours very truly,

GEORGE FINEN.

F. H. Ebeling, Syracuse, N. Y.

Dear Sir—The Gould Monarch Sprayer, Fig. 1610, with 12-ft. bamboo extension, has given perfect satisfaction, giving a fine well distributed spray, even and close to a fog in fineness. Some of the trees are late in blossoming, and they will get another shower.

Yours very truly,

F. M. POWERS, Solvay, N. Y.

My dear Mr. Ebeling:

You will undoubtedly be interested to know the success I obtained from the seed corn purchased from your house last spring; the result is 100 bushels or more to the acre of the finest yellow flint corn ever grown in Seneca county.

In our many years of business with your house, we have not failed to obtain the very best success from your seeds. Yours very truly,

W. M. FOLLETTE.

Seneca Falls, N. Y., Nov. 29, 1918.

Names of a Few Gardeners Who Have Dealt with This House Continuously from 35 to 50 Years.		
William Clark, Solvay.....	48 years	Henry O'Neil .....
Charles B. Day, Skaneateles.....	36 years	John Butler, Onondaga Valley.....
Albert Wright, Syracuse.....	49 years	46 years
William Lambert, Salina.....	42 years	A. H. Ballard, East Onondaga..... 35 years

## CANADA FIELD PEA

Is one of the very best soilings crops of the North. The most satisfactory dairy results come from sowing it with oats, rye or barley. It makes good ensilage, and is an admirable food either green or dry for cattle, being highly nutritious and rich in milk-producing elements. It is quite hardy and may be sown early in the spring, and will be ready to cut in May or June. The seed should be sown at the rate of 1 to 1½ bushels per acre.

## BUCKWHEAT

Market price changes. Write for quantity prices.

Buckwheat is mostly used for filling in fields remaining unplanted after the middle of June. It is well to bear in mind that on worn-out soils a plowed under buckwheat field is a great soil fertilizer and improver. Sow 1 bushel per acre.

**Japanese** A popular and standard sort. Very large grains of dark brown color. Early

**Silver Hull** A very prolific and early sort. Grain a light gray in color. A great favorite.

Bushel (48 lbs.) \$2.50.

## SPRING RYE

Used with profit as a catch crop where grain has winter killed. Quite commonly employed within recent years. Sow 1½ to 2 bushels to the acre.

## ROSEN RYE

This Winter Rye has a wonderful history, being brought by a Russian student from Russia, who gave a handful to Prof. Spragg of the Michigan Agricultural College, who produced from this small beginning the most prolific and wonderful Rye ever known in the United States. Rosen Rye produces a strong, vigorous straw, stools to a remarkable degree. The grain is large, plump, heavy and of beautiful color and commanding a premium on the market at all times over the common rye usually sowed. Less seed is required on account of its vigor, and one bushel to the acre will produce the best crops. Seed should not be sown until after the 10th of October. Rye is the strongest of all the grain crops, and will endure more cold and ill-treatment than any other grain. Rosen Rye produces 45 bushels to the acre. Price. \$3.00 per bushel.

## MARQUIS SPRING WHEAT

A wonderful new variety which has become very popular and met with widespread interest. It is remarkably early and exceedingly productive. Per Bushel, \$3.75.

## BARLEY

**Austrian** A productive and reliable variety. The straw is stiff and strong, holding up well and bearing long heads, which are well filled with plump grains. It ripens early and is good for both feeding and malting. Price \$3.00.

**Beardless Barley** Two row. This variety is free from beards, making it easier to thresh than other kinds and safer to feed to stock. It is a strong, vigorous grower, making short, heavy straw and bearing well-filled heads. Bushel, \$3.00.

**Chevalier** Very productive, popular, and a fine hardy 2 row type. Very plump and handsome in appearance and straw is stiff and strong. Bushel, \$2.75.



Japanese Buckwheat—Natural Size

# ALBERTA Cluster Oats

## THE FAMOUS, HEAVY YIELDING, HARDY VARIETY FROM THE GREAT NORTHWEST

These oats were grown and shipped to us direct in car lots of about 2000 bushels, from that wonderful Alberta country of the Canadian Northwest. The soil is a deep, heavy, rich loam, free from foul weeds, and which produces the very best of all grain crops. These oats have captivated the modern grain-growing farmer in every part of the country because they have proved themselves a big success. It's well known that seed oats grown in the Alberta country are unequalled in hardiness, height, yield, vigor, in freedom from rust and from foul seeds. Canadian growers are extremely careful in seed selection and the Canadian government, through its rigorous seed laws, has greatly benefited our American farmers. It is safe to say that a more profitable variety of oats was never offered before in Central New York.

The two main handicaps in the growing of oats are foul weeds and the sowing of degenerated oats. Both problems are solved by our Alberta Cluster Oats. The virgin soils of the Canadian northwest are as yet free from the many foul weeds that affect our farmers, and these oats constitute a remedy for the farmers who have had trouble with their annual yield because they have continued to sow run-out and run-down sorts year after year. Alberta Cluster Oats compare with the majority of seed oats in the same way that a blooded Holstein compares with a common, scrub animal.

### KERNELS MUCH FATTER—WEIGH 45 POUNDS TO BUSHEL

These oats yield from 75 to 100 bushels to the acre. They have big, strong, stiff straws that stand up well on any ground. Their spangled heads are 12 inches long and ripen early.

The season of 1920 showed splendid results from our Alberta Cluster Oats, which have produced two or three times more than the common oats.

Here's an opportunity for you to sell to your neighbors at a good price these remarkable oats for next season. We suggest that you order early.

Price \$2.00 per bushel. Special prices for large lots.

Seneca Falls, N. Y.

Mr. F. H. Ebeling, Syracuse, N. Y.

Dear Sir:—Will say in regard to the "Alberta Cluster Oats" that I am very much pleased with them as they yielded beyond my expectation. I had 26 acres and had 1560 bushels, and weighed 40 pounds per bushel. The weather was bad to gather them and was obliged to cut them with the mowing machine and rake with a horse rake, and we surely left 10 bushels per acre on the ground.

Very truly yours, W. D. HILL.

Geo. A. Courbat, Mallory, N. Y., sowed 30 bushels of our Wonderful Alberta Cluster Oats and grew one thousand bushels. This was a record-breaking oat crop for Oswego County, and which has never before been equaled.

**GOLDEN RAIN WHITE SEED OATS**—These new and wonderful Seed Oats are grown in Denmark whose climate produces the finest seed grains in the world. These are a new strain, having wonderful vitality, great weight, strong rootings—all of which insures the highest possible results in Oats. The question of all Oats standing up strong and stiff in the face of storms has always been a serious problem. These Oats, like our Alberta Cluster Oats, contain the highest qualities to be found in the Oat family. We have a small quantity only to offer this year.

Price per  $\frac{1}{4}$  bu.....\$2.50

Price per  $\frac{1}{2}$  bu.....5.00

We strongly urge our farmers to try a small quantity.

**TO PREVENT SMUT IN OATS.** Formula—1 pt. of formalin to 20 gal. of water, wet 20 bu. (or in that proportion) of oats with this solution, mix thoroughly by shoveling, then pile in a mound, cover up well with blankets, etc., for 12 hours. This forms a gas that will destroy the Smut germ. After 12 hours spread out the Oats to dry. They will then be ready for sowing.

**PRICES SUBJECT TO CHANGE WITHOUT NOTICE**



Alberta Cluster Oats

## EBELING'S HIGH GRADE SEED CORN

Our pedigree contract grown Seed Corn is the very best that skill, experience and money could produce.

Our seed corn growers are veterans in their line, and have grown gray in service of serving to our farmers the very best of selected varieties, such as Pedigree Leaming, Pride of North, Iowa G old Mine, the Flint sorts, Sweet Corn, etc.

Our corn will grow 90 to 95% this season, and we will guarantee satisfaction to all who use our Pedigree Seed Corn.

### EARLY WONDER ENSILAGE

Also known as Giant Ensilage, The Abbott, West Branch, Lancaster Sure Crop, Rising's Gold Dollar, Excelsior and other names. The corn that makes the farmer prosperous. Makes the ensilage in eighty days. Fully ripened and glazed ninety days. This variety of Field and Ensilage Corn is the product of most careful selection and each year only the finest ears selected for the good qualities desired from each of the parent varieties, until it was brought to its present high state of growth, early maturity, large yield of forage and grain. Price \$4.50 per bushel.

### SOMETHING NEW

**Golden Glow** Ensilage Corn is the earliest good sized variety of Dent Corn in existence. Something early and yet large enough for a profitable variety for general culture as a fodder or ensilage corn. It is noted for giving a big crop of good sized ears. It was awarded first prize at the International Corn Show in Wisconsin (year 1913) as the best yellow Dent Corn. Golden Glow is a pure yellow Corn, kernels of good length—an early corn, stalks large and strong with abundant foliage. Bu. \$4.00.

**Angel of Midnight** A most popular extra early 8-row yellow flint corn. Ears of medium size, a splendid yielder for one so early. If you want a corn that will stand June planting, select the "Angel of Midnight," the farmer's friend. Stalks of medium size.

**Longfellow** This is very well named, being the longest eared 8-rowed yellow flint corn known. It is strikingly handsome, medium late and should be planted on rich soils. It is the most prolific of all the flint sorts. Very popular among corn raisers. Stalks are of good size.

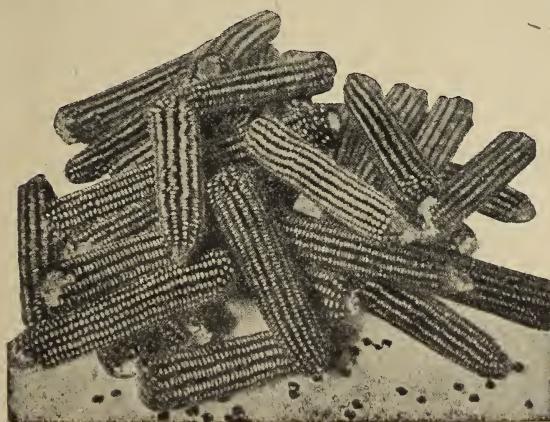
**Canada Smut Nose** This good old standard sort is one that has stood the test of time, and is as popular as ever. It is an 8-rowed medium late with a splash of a reddish blush over the tip of the ear.

**Sanford White Flint** A splendid large long-eared 8-rowed sort sometimes called "Canada White Flint." with big white kernels, small cob, easy to husk and a great basket filler. One of the biggest yielding sorts known. Ripens rather late, likes rich soils, early planting, old-fashioned cultivating and hoeing, with the result that you have a growth like a young forest, and a yield fit for a king. Very popular in Northern New York.

**White Cap Yellow Dent** This is an early yellow Dent, similar to Huron Dent, except that it has a white capped kernel which makes it look like a white corn. The grain with this exception is a beautiful yellow. A splendid planting corn. Its earliness permits it to ripen in New York State.



Longfellow  
Yellow Flint  
Corn

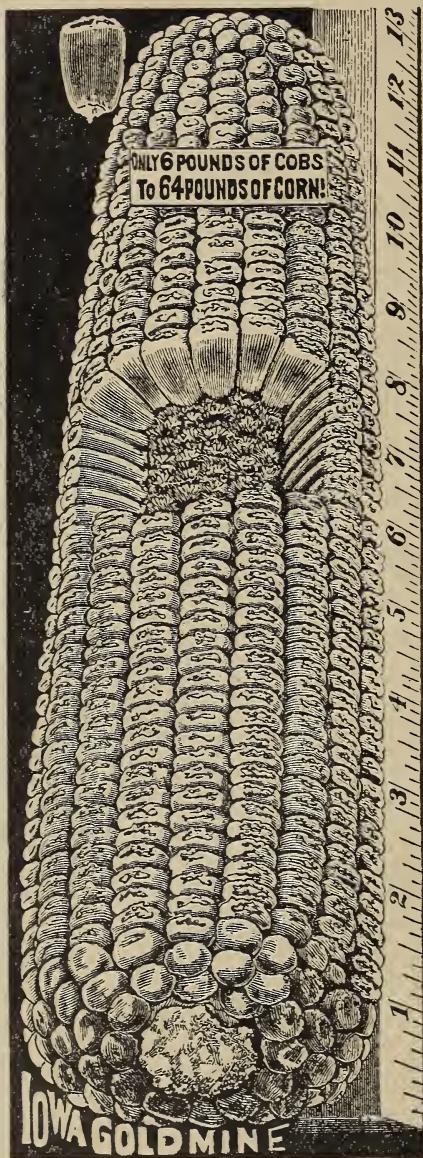


"Bloody Butcher."

**Bloody Butcher** It's the earliest Dent corn—as early as the Pride of the North or the Flint varieties. The stock like it and one bushel will go as far as 1½ bushels of either white or yellow varieties. Worms and birds do not bother Bloody Butcher very much and for that reason it is much sought after by the southern planter. Color deep cherry red with white cap, generally 14 rows on a small cob. Stalks medium height, fairly heavy.

### Early Eureka, or Champion White Pearl

Early, thoroughbred White Dent. Ears average sixteen rows, with very small cob; ripens in 90 to 100 days from time of planting. Very productive, yielding fully as well as the Yellow Dent sorts.



## PRIDE OF THE NORTH

85-Day Yellow

We believe Pride of the North will mature farther north than any other Dent corn. Strong, hardy, vigorous grower, can be planted thickly and still make good-sized ears. For husking crop it ripens early, dries out quickly, and is an all around very satisfactory kind. Pride of the North has a bright red cob, ears medium size, with deep kernel. Many of the stalks have two good ears. Price per bushel, \$3.00.

SPECIAL PRICES ON APPLICATION

## IOWA GOLD MINE ENSILAGE CORN.

The Deepest Grained, Purest Yellow Corn Ever Grown. Every Year This Corn Puts Thousands of Good Gold Dollars in the Pockets of Our Customers.

Every year you have read in our catalog the extraordinary things we have had to say about our Iowa Gold Mine Corn. Every year our confidence in it has increased, and our only wish is that we knew how to make a stronger plea for this, the king in the corn family.

We honestly believe it is the biggest market producer and money maker on the American continent.

This real wonderful variety of corn grows 14 feet high and it matures with your field varieties. Of all ensilage corn known to modern seedmen this has the largest kernel, and smallest cob. You will find the grain value to be almost double of the Leamington or Pride of the North because of their immense cobs and small kernels. Iowa Gold Mine Ensilage Corn possesses every desirable feature of the Leamington and Pride of the North and in addition the great grain producing quality we have told you about.

We earnestly advise you, the reader, to sow this corn this year and we know that you will be as enthusiastic as we are about this world-winning corn. Price \$3.50 Bu. Shelled.

## LUCE'S FAVORITE DENT FIELD CORN

Luce's Favorite, Minnesota King, Early Triumph, Poor Man's Dent. These four varieties are all one and the same thing.

This variety combines the best in the Western Yellow Dent and Eastern (White) Flint of which it is a hybrid. It combines all the good points in the family stock in that its stalks are tall, slender with many wide leaves. The ear has a long small cob filled with large broad dent kernel flattened out to the size of your finger nail. You can plant it as late as May 25th and it will ripen with ordinary seed Flint sorts.

You will find Lucie's Favorite to be a strong growing bright yellow dent corn, which breaks off very easy in husking. It's the heaviest yielder you ever saw, the stalks often have two or three ears. It's extra good for fodder as the leaves are very broad and long. Like all hybrid of this class there are from eight to twelve rows to the ear. We have seen a bushel shelled that weighed 34 pounds and equal to 69 pounds of shelled corn to 2 bushels of ears. Price \$4.00 bushel.

## IMPROVED LEAMING

This variety was originated by a Mr. Leamington of Ohio and at once became a very popular and well known variety. It is probably more largely used in the East than any other variety for ensilage or fodder purposes. Stalks grow to good size, nine to twelve feet, and produce ears nine to eleven inches long, containing from sixteen to twenty-one rows of dark golden yellow grains. It is a late variety and will not mature in the northern states, unless the season is very favorable, but it is early enough to make it very valuable for an ensilage corn. Price per bu., \$3.50.

## EUREKA ENSILAGE CORN

This picture shows a field of our GENUINE and CELEBRATED EUREKA ENSILAGE CORN; also the grower, Jessie Clift of Split Rock. This shows a wonderful growth of this celebrated variety which has produced such immense crops for our New York farmers. We are offering again our genuine Eureka Ensilage Corn, which we have secured from our growers in Virginia, and is not to be compared with the ordinary Southern Horse-tooth variety which is often substituted.

This wonderful variety of Ensilage Corn was originated and grown under special supervision on the bottom lands of Virginia. It is especially famous for abundant leaves and extreme height. Some of you will remember having seen this variety at our State Fair exhibit three years ago. The corn measured 19 feet in height.

This season we have been fortunate in securing another carload of this wonderful corn.

As it grows beyond the frost line it insures a perfect seed stock, as our short season does not allow it to mature and our Northern soil produces an extremely heavy growth of stalks and leaves, which makes it especially valuable ensilage and nearly double in quantity.

Bear in mind that this is the genuine Eureka, not the common Southern horse-variety—and remember that our stock will be exhausted early. Price, \$4.00 per bu.



### WHAT SOME OF OUR CUSTOMERS SAY

Produces a wonderful growth of stalks, the tallest, most leafy and best for ensilage I have ever grown.—Isaac H. Broadhurst, Marcellus, N. Y.

Made a tremendous crop.—J. Grant Morse, Laurel Farm, Hamilton, N. Y.

Had two acres of Eureka corn and put in about 40 tons.—W. B. Sanborn, Hamilton, N. Y.

The Eureka corn we had of you this year was nearly shoulder high on July 19th and growing rapidly and will probably be 17 or 18 feet high when ready to put into our silo. We have used this for years and consider it one of the best for ensilage.

SEEBER BROS. Hastings, N. Y., Nov. 1st, 1915.

Mr. F. H. Ebeling.

Dear Sir:—I am pleased to say that the Eureka ensilage corn which I have had from you has proved more than satisfactory. The germination of the seed has been remarkably good, and the yield of corn for silage very satisfactory.

With our system of growing, the ears mature fairly well and make good sweet silage.

We are now cutting something over 160 acres of alfalfa each year. The first commercial seed which we purchased came from your predecessor, Mr. Perry, over 35 years ago, and we have had more or less seed from your store each year since. The fact that we have continued to make our purchases from you surely indicates that we have been well pleased with the seed and with the service you have given us.

Fayetteville, N. Y. Yours very truly, F. E. DAWLEY.

THESE PRICES SUBJECT TO CHANGE WITHOUT NOTICE



Sweet Potatoes and Indian Maize

E. D. Chapman, left, C. H. Jackson, right

Field of Sweet Potatoes and Indian Maize Corn on E. D. Chapman farm, Syracuse, N. Y., R. F. D. 4 grown by C. H. Jackson. This is a real novelty, as Sweet Potatoes are not generally grown in the North. However, Mr. Jackson has succeeded in growing Sweet Potatoes with excellent results. The picture above shows the field of Sweet Potatoes—also a field of Indian Maize. Our farmers should grow a small acreage of these two splendid crops, which would add materially to the interest of food and profit of the farm. Mr. Chapman and Mr. Jackson appear in the picture.

## ALFALFA—THE BIG MONEY CROP

It has been said many times and in many different ways that there is more money in alfalfa than in other crops. However, large numbers of farmers have been discouraged in growing alfalfa because of weeds and because they have taken chances with inferior seeds. The truth is that alfalfa is very seldom run out by weeds. It's only the tender strains of seed that are affected. In Minnesota farmers even kill out Canadian thistle patches by seeding to alfalfa.

It's poor economy to gamble with unknown alfalfa seed when you can sow the seed grown in the great Northwest and have the results insured.

You have been warned by the U. S. Department of Agriculture against the purchase of commercial Turkestan and other inferior alfalfa seed, and you should profit by their advice.

We have a carload of the famous western grown Alfalfa—Dodder free—which we do not hesitate to say is the finest ever received in Syracuse. We trust that our customers will avail themselves of this opportunity.

### FOR DESTROYING DODDER IN ALFALFA FIELD

Use a spray consisting of four parts of water, one part of crude carbolic acid. Mix thoroughly in hot water. Spray this on the infected spots with an ordinary paris green sprayer. If necessary spray the second time. This will kill the dodder and save about 75 per cent. of the growing Alfalfa. I am indebted to J. C. Osborn, Port Byron, N. Y., for this valuable discovery.—F. H. E.

THESE PRICES SUBJECT TO CHANGE WITHOUT NOTICE



Seven-Acre Field of Big Boston Lettuce Grown from Our Seed by A. Wooding,  
Clay, R. F. D. No. 2

### IDEAL SUGAR MANGEL

Our illustration shown below faithfully indicates the type of this Beet. It is a perfect Chunk or Boot-leg type of a beet, which makes harvesting easy, especially in hard soils, as it grows fully two-thirds above the ground. This new and original Mangel Seed is imported from Europe. In trial ground test of over thirty varieties, the IDEAL SUGAR MANGEL has proven superior in each of the following points:

- It contains the greatest amount of dry substance.
- Under favorable conditions they sometimes weigh thirty pounds.
- It contains the greatest amount of sugar, which means feeding value.
- Size, quality and yield are three important factors that no farmer can afford to overlook.
- This Mangel grows high above ground.
- It's easiest of all to harvest these Mangels.
- Price, \$1.75 per lb.



Field of Ideal Sugar Mangel Beets Grown by Charles B. Day, Skaneateles, N. Y.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE



THREE-ACRE FIELD OF GOLDEN SELF-BLANCHING CELERY GROWN BY  
A. WOODING, CLAY, R. F. D. No. 2

**USEFULNESS OF THE EARLY MEDIUM GREEN SOY BEANS.**—Soy Beans have a higher protein content than oil meal. Hay from them has a higher protein content than Alfalfa. The green fodder contains a higher protein content than either alsike or medium red clover. Add to this the fact that it is easily possible to secure two or three, or occasionally four to five tons of dry hay per acre; adds fertility to the soil fully as rapidly as the clovers or other legumes; will grow on soil too poor or acid for Alfalfa.

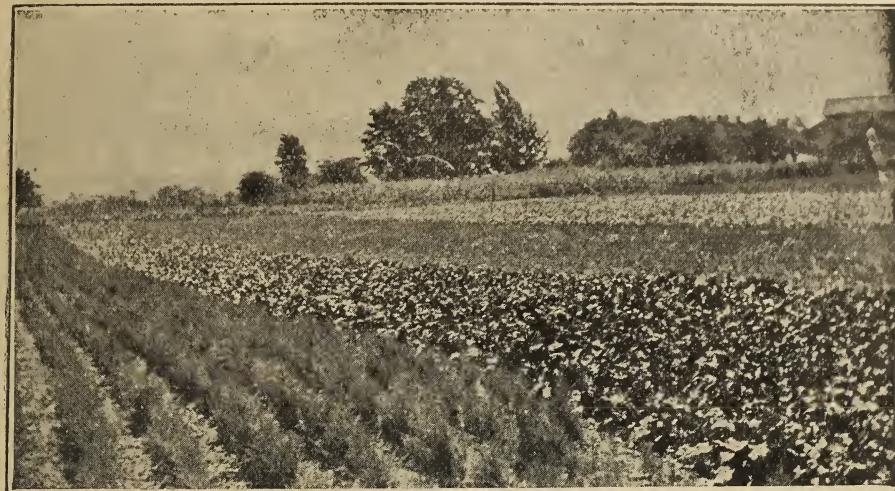
**Time of Planting and Cultivation**—Prepare and cultivate the same as for corn, giving frequent harrowings to kill the weeds. Wait until corn planting time before planting the beans. Plant in with the corn or in alternating rows. Sow  $\frac{3}{4}$  bushel to the acre. We advise planting in drills about 36 inches apart, 2 or 3 inches in the drill. **Price, \$8.00 per bushel.**

**Book on Soy Beans** by W. F. Ingalls, a practical farmer, of Hamilton, N. Y., who has grown the Early Medium Green Soy Beans for many years, and is an authority on same **Price, 60 cents.**



A Field of Early Medium Green Soy Beans, planted June 1st, and grown on the farm of Mr. S. F. Siefker, Manlius, N. Y.

**ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE**



Garden Farm of Frank L. Scoville, Buckley Road

Mr. Scoville has traded with us for over thirty years, and is one of the most successful market gardeners in this vicinity.

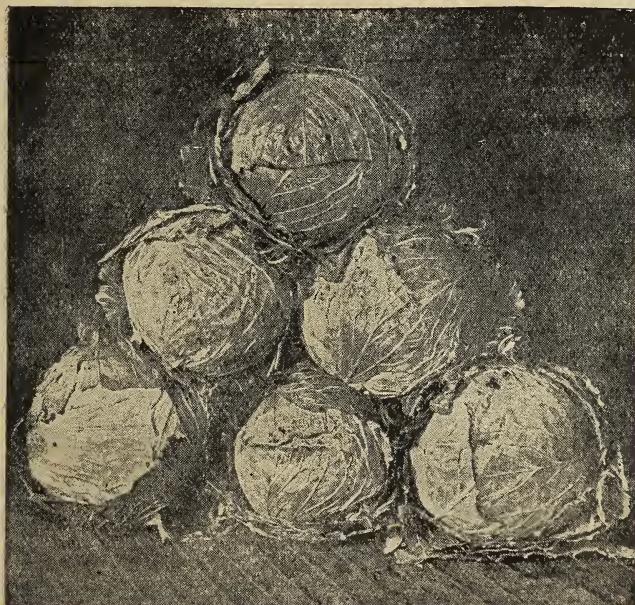
My Dear Mr. Ebeling:

I have dealt with you for so many years that I can hardly recall when I have not done so. It is certainly over thirty years when we began and have continued to do so ever since. The reason why is, that we have always found your seeds to be reliable, true to name and of good vitality. On this account you have earned the splendid reputation that your store bears in the community and wherever you do business. I would not be doing justice to myself, neither to you, were I to say anything different. Our success in gardening and farming depends so largely upon the seedsman that we could not afford to do business with a firm that failed us in these important matters.

You are welcome to use this letter in any way that you think best.

Very sincerely,

Frank L. Scoville.



Early Copenhagen Market Cabbage

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

On August 5th, 1920, Frank L. Scoville, market gardener, brought in six heads of Copenhagen Market Cabbage weighing 137 pounds. The largest single head weighed twenty-nine pounds. This is the greatest showing of Copenhagen Market Early Cabbage ever produced in this vicinity. We doubt if it has been equalled anywhere. This Cabbage was raised from our imported Denmark grown seed and is the same strain that Mr. Scoville has been so successful with in recent years. Coming so early it is the greatest money maker of all the cabbage family.

Marietta, N. Y.

July 26, 1920.

The Danish Ball-head Cabbage Seed, short stem, which I had of you last spring was very fine and am very pleased with it. I had a handsome bed and all the seed came up good. I would like three pounds more of the same seed for next year, and will call and see you when I come to Syracuse.

GEORGE HEMBURY.

# AT LAST! A REAL ROOT MAGGOT REMEDY

# MAG-O-TITE

INSURES A GOOD CROP  
—OF—

Radishes, Kale, Cabbage, Onions, Turnips, Cauliflower, Etc.  
You can now sow any of these crops and be certain of protection against  
the destructive Root Maggot, Earth Worm and other pests

ERADICATES EARTH WORMS FROM LAWNS AND  
PUTTING GREENS

IN STRONG DOUBLE SACKS

25 lbs.	\$3.00
100 lbs.	9.50

**FARM SCALES**—The Renfrew Portable Weighing Machine on Wheels. Something new. Will weigh from one lb. to one ton. For use in weighing Grain, Hogs, Sheep, Milk—everything that needs weighing. Simple, durable, economical. Last a life time. Special price to introduce it. Regular price, \$75.00.

## HAIRY OR WINTER VETCH. *VICIA VILLOSA.*

Makes One of the Largest Yielding and Most Nutritious Hay Crops Grown. Rivals Cow Peas in its Nitrogen Gathering Properties. A Splendid Soil Improver.

### Harvest and Use

Vetch should be cut for hay just when the pods are half formed. You may cut it for green feed at the time it is in full bloom. When it is properly cured vetch makes good hay, as its feed value is similar to clover.

It is adapted for pasture purposes. It will produce forage very late in the Fall and early in the Spring. Sometimes it is used for ensilage in alternating layers with green corn. Like all other leguminous plants, vetch adds fertility to the soil and may be used in rotation with cereal and corn to good advantage. Winter Vetch, lb., \$.45.

#### QUESTION

#### Summary

#### ANSWER

1. How to Sow Vetch.....Mix with one bu. grain 25 lbs. vetch to the acre.
2. When to Sow.....When season and soil permits.
3. What Variety?.....Sow Winter Vetch in the Spring and Fall.
4. What Soil?.....Any soil—especially high, dry and sandy thin soils are especially adapted to it.
5. How much to the Acre?.....Twenty-five pounds with grain.
6. How Valuable as Compared with Hay?.....25 per cent greater than Clover Hay.
7. How Valuable as Compared with Alfalfa?.....Three per cent greater.
8. How Valuable Compared with Ensilage?.....Four times greater.
9. Which is Best, Winter or Spring Vetch?.....Winter Vetch for Spring and Fall sowing.

SPECIAL PRICES ON APPLICATION

## EXTRA RE-CLEANED GRASS AND CLOVER SEED

Nothing is more important to the farmer than that the grass seed he sows should be pure and clean. The seed should also be plump, heavy and well ripened, so as to insure a good stand. First-class, thoroughly re-cleaned seed, while considerably more costly in the first place, is really much cheaper in the end than the light, chaffy grades generally sold at much lower prices—even should the latter be free from weed seeds. Heavy, plump seed, germinating better, will produce a much greater number of strong plants.

**SUDAN GRASS.** Sudan Grass is strictly an annual, and dies each year like millet, and must be seeded again each spring. This makes it fit into any system of rotation and affords a change in crop, which is a good thing for the soil. Sudan Grass is tall, reaching a height of from seven to nine feet, with very small stems, no thicker than a lead pencil. The plant stools wonderfully, and produces an amazing number of stalks from a single root. The hay crop is of great importance; stock prefer it to any other forage, and thrive on it. Produces good crops in time of drought, and enormous ones in wet seasons. Price 20c lb. Sow 10 to 15 lb. per acre.

### PASTURE MIXTURE

Mixtures of seeds for the different pasture mixtures:

#### LOW LAND

	Lbs. per Acre
Kentucky Blue Grass.....	8
White Clover.....	4
Orchard Grass.....	9
Red Fescue.....	3
Redtop .....	8

32 lbs.

#### HIGH LAND

	Lbs. per Acre
Blue Grass.....	3
Red Clover.....	2
Orchard Grass.....	2
Redtop .....	13
Perennial Rye Grass.....	8
White Dutch Clover.....	2

30 lbs.

#### FOR WET PASTURES

	Lbs. per Acre
Redtop .....	14
Alisike .....	8
Perennial Rye Grass.....	12
White Clover.....	6

40 lbs.

#### FOR LIGHT, SANDY SOILS

	Lbs. per Acre
Red Fescue.....	20
Redtop .....	10
Kentucky Blue Grass.....	8
White Dutch Clover.....	2

40 lbs.

**BROMUS INERMIS.** A hardy perennial, dark green soft grass, especially adapted to the dry and thinner soils. It forms a splendid grass for our Central New York farms, making fine pasture and good hay. It is one of the few really desirable grasses that can be depended upon for all around purposes. It is finer than Orchard Grass, sweet and nutritious, and sprouts out into fresh growth very naturally. Well adapted to high grounds, hills and sandy soil. It makes quick and strong growth, forming splendid pasture and hay, weighs 14 pounds to the bushel. Sow three bushels to the acre. Price, \$4.00 per bushel. It is a hardy perennial, dark green, grows on hills, dry and barren spots. It forms a splendid pasture and will grow where no other grass will thrive. Sow double the quantity of Blue Grass. Lb., 45c.

**ORCHARD GRASS.** (*Dactylis glomerata*). This is one of the most desirable pasture grasses for stock, and also for producing large crops of hay. It succeeds well in quite shady places, hence the name of Orchard Grass. Choicest re-cleaned seed, 14 lbs. to

the legal bushel—but our seed is heavier; 3 bushels to the acre. Per lb., 35 cts., postpaid; per bushel of 14 lbs., about \$5.00.

**TIMOTHY.** (*Phleum pratense*). Of the easiest cultivation and with us is usually sown in connection with winter grain in the fall, to which a seeding of clover is added early in the spring. 45 lbs. to the bushel; from 12 to 16 to the acre, per lb., 20 cts., postpaid; price per bushel, about \$6.00.

**KENTUCKY BLUE GRASS.** As is well known, this is the grass for which the State of Kentucky is famous and frequently in some sections of the country it is used in making lawns, although it is preeminently a pasture grass. When Kentucky Blue Grass is used for lawn purposes, the seed is generally sown at the rate of two and one-half to three and one-half bushels to the acre, and if White Dutch Clover is desired, seed should be added at the rate of one-half pound to one bushel of grass seed. Kentucky Blue Grass thrives best in well-drained or limestone soils. Legal weight, fourteen pounds to the bushel, and for pasture it is customary to sow two and one-half bushels to the acre. Our recleaned seed weighs 20 pounds per bushel, and hence less than two bushels are required per acre. Per lb., 40 cents, postpaid; per bushel of about 20 lbs., \$7.00.

**ENGLISH RYE GRASS.** (*Lolium perenne*). This makes a quick growth very early in spring, and is adapted for cool, moist locations, recommended for fall seeding on Bermuda-grass lawns in the South, giving them a bright green appearance all winter. 24 lbs. to the bushel; 3 bushels to the acre. Per lb., 25c, postpaid; per bushel of 24 lbs., \$4.00.

**ITALIAN RYE.** (*Lolium Italicum*). This is distinct from the preceding, being of much larger and stronger growth, with large broad glossy-green blades. It succeeds best in moist, fertile soils. About 20 lbs. to the bushel; 3 bushels to the acre. Per lb., 26c by mail, postpaid; per bushel, \$3.50.

**RED TOP OR HERD GRASS.** (*Agrostis vulgaris*). It is a most valuable addition to sow with timothy and clover to form a close sward for pasture. About 32 lbs. to the bushel; 1 bushel to the acre; for lawns, 1 bushels to the acre. Per lb., 30c, postpaid; per bushel of 32 lbs., about \$8.00.

**CRESTED DOGSTAIL.** (*Cynosurus cristatus*). A valuable addition for lawn grasses which require close cutting and an ability to resist trampling, as in golf links, etc. 21 lbs. to the legal bushel; 1 to 2 bushels to the acre. Per lb., 75c, postpaid; per bushel of 35 lbs., \$7.00.

**CREEPING BENT.** (*Agrostis stolonifera*). Especially adapted to moist lands and those which are occasionally overflowed. Its peculiar habit of branching underneath to the surface enables it to resist to the greatest extent tramping and pasturage. About 20 lbs. to the bushel; 2 bushels to the acre. Per lb. 60c by mail, postpaid; per bushel of 20 lbs. \$1.30.

**HARD FESCUE.** (*Festuca durinscula*). An excellent pasturage or lawn grass, succeeding well in dry or shady locations. About 12 lbs. to the bushel; 2½ bushels to the acre. Per lb., 40c postpaid; per bushel of 12 lbs., \$4.50.

**SHEEP'S FESCUE.** (*Festuca avina*). Slender blades growing in close, compact clumps and from six to ten inches in height. About 12 lbs. to the bushel; 2½ bushels to the acre. Per lb., 40c postpaid; per bushel of 12 lbs., \$4.50.

**MEADOW FESCUE.** (*Festuca pratensis*). A fine pasture grass. About 22 lbs. to the bushel; 2 bushels to the acre. Per lb., 35c, postpaid; per bushel of 22 lbs., about \$5.50.

**TALL MEADOW OAT.** (*Avena elatior*). A very valuable pasture grass. It is especially adapted for rather dry, light soils. About 10 lbs. to the bushel; 4 to 5 bushels to the acre. Per lb., 45c postpaid; per bushel of 10 lbs., \$4.50.

**WOOD MEADOW.** (*Poa nemoralis*). An excellent pasture or lawn grass, desirable for planting under trees on the lawn. 14 lbs. to the bushel; 2 bushels to the acre. Per lb., 75c by mail, postpaid; by express, \$8.00 per bushel.

**ROUGH-STALKED MEADOW GRASS.** (*Poa trivialis*). A valuable grass for moist soils or meadows, making excellent pasturage or very nutritious hay. About 14 lbs. to the bushel; 35 lbs. to the acre. Per lb., 55cts., postpaid. By express: 75 cts. per lb.; per bushel of 14 lbs., \$1.00.

**MEADOW FOXTAIL.** (*Alopecurus pratensis*). Closely resembles Timothy in growth, but has a soft, feathery head. It is a valuable pasture grass by reason of its rapid growth. About 7 lbs. to the bushel; 3 bushels to the acre. Per lb. 75c postpaid; per bushel of 7 lbs., \$5.00.

**JAPANESE MILLET.** (*Billion Dollar Grass*). Japanese Millet is one of the most remarkable forage plants we have; remarkable for its marvelous, luxuriant growth, often growing six feet tall; remarkable for the immense amount of hay it produces from each acre, and remarkable for its feeding value. It is adapted to all sections; does especially well on low ground; makes more hay than German or any other kind of millet, and requires less seed per acre; produces a crop in a very short time; is relished as hay by stock of all kinds; or, if allowed to ripen, will yield about as many bushels per acre as oats. The seed can be used for feed, and is especially fine for poultry. Sow in May for best results, 15 to 20 pounds per acre. If desired for hay, cut just before it heads out; or it can be left to ripen and then threshed the same as timothy. Price \$4.00 per bushel.

**HUNGARIAN MILLET.** (*Panicum Germanicum*). Seed can be sown early in July to produce a good crop of hay. To make the best hay it should be cut before the seeds become hard. 48 lbs. to the bushel; 1 bushel to the acre. Per bushel, about \$4.00.

**GOLDEN OR GERMAN MILLET.** This is the favorite variety for planting in good land to produce a large crop of hay or forage during the summer months; of very strong growth. 50 lbs. to the bushel; 1 bushel to the acre. Tennessee grown. Per bushel, about \$4.00.

**DWARF ESSEX RAPE.** A forage plant of highest value. It can be sown in April for an early crop, and for fall crop in July, August and September, and still later further south; it is sown broadcast 10 lbs. to the acre, but it is better drilled, in which case 5 lbs. to the acre will suffice. In a few weeks from the

time of sowing, sheep, hogs or cattle can be turned upon it; all reports agree that they gain weight faster on this than any other fodder, and as it can be sown after other crops are off, the gain in fodder is secured at a nominal cost. Stockmen, dairymen and farmers have proved its value. Per lb. 15c., 10 lbs. \$1.45; 1 bushel of 50 lbs. \$700; 100 lbs. \$12.00.

**SORGHUM, OR EARLY AMBER SUGAR CANE.** This is the sorghum of the Northern States; makes the finest quality of syrup. The earliest and most productive variety. Height, 10 to 12 feet. For ensilage or fodder it possesses good qualities; stock of all kinds relish it. Sow 5 lbs. in drills, or 1½ bushels broadcast to acre. Per lb., 10c; bu. (55 lbs.), \$4.00.

**WINTER VETCHES, OR TARES** (*Vicia Villosa*). Also called Sand Vetch, or Hairy Vetch. Recommended for fall sowing with rye, which serves as a support. It is perfectly hardy in all parts of the country, remaining green all winter and maturing fully four weeks earlier than Scarlet Clover; it can, therefore, be harvested or plowed under, and the ground used for the usual spring crop. Sow 25 lbs. with one bushel grain per acre. Price per bushel, \$14.00.

### CLOVERS

**ALFALFA, OR LUCERNE.** (*Medicago sativa*). It strongly resembles clover in habit of growth and feeding value, but withstands drought much better. It is a perennial plant on well-drained soils, so that when once established, it will continue to produce large crops for twenty years when properly cared for, and on some of the rich western prairies yields four to five large cuttings in a single season. It must be cut every time it comes into bloom, and not allowed to produce seed if permanence is desired. The plant is quite hardy, but will not succeed on low wet soils. Sow from 20 to 35 lbs. per acre. Per lb., 40 cts., postpaid. By express or freight, 35c per lb., per bushel, \$20.00.

**ALSIKE OR HYBRID CLOVER.** (*Trifolium hybridum*). The plant is perennial and very hardy, thriving equally well on wet or dry soils. The stems are more slender and much taller than those of the Red Medium Clover, and thus much better adapted for growing with Timothy to produce a high grade of mixed hay. Sow at rate of 10 to 20 lbs. to the acre. Per lb., 30 cts., postpaid. By express or freight: per lb., 40 cts.; 10 lbs. or more at 35c per lb.

**RED MEDIUM OR MAMMOTH.** This is the common Red Clover so largely grown. We shall be pleased to quote prices at any time.

**WHITE DUTCH CLOVER.** (*Trifolium repens*). This thrives in almost every soil and climate, succeeding equally well on heavy, moist land and thin, dry hillsides. It is of low-creeping growth and for green, velvety lawns. Per lb. 70c postpaid; by express 75c per lb.

**SWEET CLOVER BOKHARA** (*Mellilotus Alba*). This slightly resembles Alfalfa in growth, but is much taller, with leafier and stiffer stems. It frequently grows five to six feet in height and branches freely, with slender spikes of small, fragrant, white flowers, which afford an excellent food for bees. Used also for inoculating Alfalfa soils. Per lb. 30c.

**CRIMSON OR ITALIAN CLOVER.** (*Trifolium incarnatum*). An annual variety providing large crops of green forage, or if cut while in bloom will make excellent hay. It should not be allowed to grow too old, or the seed-heads are liable to cause hair-balls to form in the animals' stomachs, to their great injury. It is for use as a green manure and cover crops that this plant is most highly esteemed. It improves poor lands and restores to fertility those worn by excessive culture. Seed should be sown early in August. Sow 15 lbs. to the acre. Per lb. 25c.

**INOCULATION** of these Clover Seeds means a stronger catch and better yield—see page 57.

## SEED POTATOES



### The Russet

This marvelous Russet Potato is free from scab, blight and rot, being one of the very few potato fields that passed the rigid inspection by the New York State Food Supply Commission.

We offer Improved Russet Potatoes for seed, and urge our farmers and gardeners to order early before the stock is exhausted.

Price per bushel. Sacks at cost. Large lots at a suitable reduction.

Price per bushel,      Sacks at cost. Large lots at a suitable reduction.  
**Early Ohio** The earliest of all and "The King of the Earlies." We offer the genuine  
River Valley, the noted seed potato growing section of the U. S. Buy your seed stock now,  
which will be good for the years to come, as they will not "run out," but will hold true to  
type for many years.

## Early Seed Potatoes

Early Ohio	Per bushel
Early Irish Cobblers	Per bushel
Beauty of Hebron	Per bushel

## Late Seed Potatoes

## Late Seed Potatoes

PRICES ON APPLICATION.

PRICES ON APPLICATION

## MASTERS RAPID PLANT SETTER

A wonderful labor saving tool for transplanting Cabbage, Tobacco, Tomato, Sweet Potato, Cauliflower, Egg-Plant, Strawberry and all similar plants.

This Setter was originally designed to set cabbage plants, but has since been used with great success for many other plants.

Each plant is SET, WATERED and COVERED in one operation. The roots are firmly set by the absorption of the water almost as if they had grown there and every plant will grow even in the hottest, driest weather. You can set your plants just when you are ready regardless of the weather.

## A Labor Saver

To operate this Setter you walk along in an upright comfortable position. There is no stooping or lame backs. All of the hard labor of setting plants is done away with. It is easy pleasant work. You can set 8000 to 15000 plants per day and do perfect work. This is more than three times as fast as hand setting. You actually do more in one day than three men can do by hand so that this Setter will pay for itself every day it is used.

so that this Setter will pay for itself every day it is used. It is the ideal tool for gardeners and should be in the hands of every farmer who has plants to set out. It is now recommended by most of the leading Agricultural Colleges over all other methods of transplanting. Is strongly built and will last for years.

Price \$7.00 each

SATISFACTION GUARANTEED OR YOUR MONEY BACK

Send for Special Circular

Send for Special Circular  
**PRICES SUBJECT TO CHANGE WITHOUT NOTICE**

**ASPARAGUS**

Spargagio (It.)

**Spargel (Gr.)** Culture—Sow early in spring in rows one foot apart; when one year old the roots may be taken up and transplanted in permanent beds, which should be made by taking out the soil to a depth of about 16 inches, fill in with six inches of well rotted stable manure, then six inches of soil somewhat firmed, and place the roots on the same about 10 inches apart with the roots well spread out and cover so that the crown will be about four inches below the surface. Keep the surface well raked to keep down the weeds until the shoots appear.

**Palmetto** is earlier, a better yielder, and is more even and regular in its growth than Conover's. Oz. 15c; 1/4 lb. 35c; lb. 75c.

**Columbian Mammoth White** It furnishes white shoots which stay white as long as fit for use without earthing up or any other artificial blanching. Fine for canning. Oz. 15c; 1/4 lb. 25c; lb. 75c.

Roots of above varieties, \$1.00 a hundred.

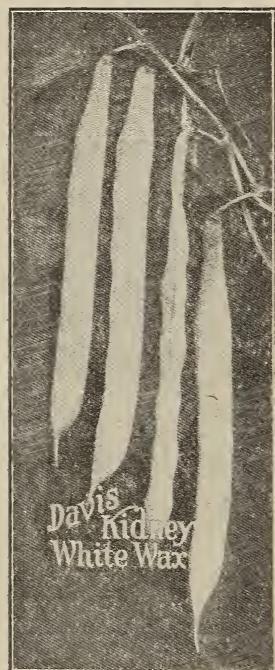
**Bohnen (Gr.)****BEANS—Dwarf Wax Varieties**

Faginoli (It.)

Culture—Beans should not be planted until the ground is warm, as cold and wet weather will cause the seed to rot. For garden culture plant four or five seeds in hills one foot apart, and the rows 18 inches apart. For field culture make the rows three or three and one-half feet apart, and cover with two inches mellow soil. Do not hoe or cultivate while the plants are wet with dew or rain, as getting the leaves bespattered with earth causes rust, which injures the crop.

**Pencil Pod Wax**

This comparatively new wax podded bean is particularly hand-some, also medium early, hardy and very prolific. Leaves roughened. Pods long, five and one-half to six inches, straight, round, fleshy, and of a bright yellow color; tender, absolutely stringless and of excellent quality, and are produced through a long season. One of the best for home use and near markets. Seed long, round, medium sized: color solid black. Pt. 25c; qt. 50c; bu. \$14.00.



**Davis Kidney White Wax** quality, stringless if picked uniform in shape; color dull

**Grenell Rust-Proof Wax** about five inches long, broader and flatter than the Golden Wax. The handsome deep yellow pods are

**Davis Wax** A very hardy and productive variety, desirable where a wax-podded, white seeded, mid-season sort is wanted. Vines very vigorous. Pods invariably long, six and one-half to seven inches, light yellow; seed kidney-shaped. Pt. 25c; bu. \$14.50.

**Wardwell's Kidney Wax** This variety maturing a little later than the Golden Wax, yields a large crop of long, nearly straight, broad, creamy white, handsome pods. These are of large size, about six inches long, and are of good quality; kidney-shaped, white with dark markings about the eye. Pt. 25c; qt. 50c; bu. \$16.00.

**Keeney's Rustless Golden Wax** Vines strong and vigorous, with short runners. Pods produced in abundance; about five inches long, stringless, light yellow, wax-like and handsome. Seed similar to a light colored Golden Wax. Pt. 25c; qt. 40c.

**Currie's Rust-Proof Wax** Pods straight, rather flat, five inches in length, and of a light golden yellow; seed black. Pt. 25c; qt. 50c

**German Wax, Black Seeded** This variety takes the place of the old black wax or butter bean and is much better in every respect. Vines medium sized, with small foliage, very vigorous, hardy and productive, maturing about midseason. Pods medium length, four and one-fourth to four and one-half inches, borne well up from the ground, curved, cylindrical, fleshy and of a clear, light golden yellow color, and remain a long time in condition for use as snaps. Seed small, oblong, jet black. Pt. 25c; qt. 50c; bu. \$14.00.

**Round Pod Kidney Wax** This midseason variety is exceedingly handsome and very desirable, especially for snaps for the home garden. The vines are dwarf, spreading and very productive. The leaves are roughened. The pods are long and round, five and one-half to six inches, slightly curved, light yellow, wax-like, stringless and of the best quality. They are uniformly perfect, an ill shaped one being rarely seen. Seed long, cylindrical, medium sized, nearly white, with a little dark marking about the eye. Pt. 25c; qt. 50c; bu. \$14.00.

**Hodson Wax** The vines of this variety are exceedingly vigorous, hardy and productive. The pods are handsome, clear creamy white, very long, six to seven inches, straight or slightly curved, flat but fleshy and of good quality, when quite young; matures its crop late. Seed long, cylindrical, purplish red splashed with pale buff. Pt. 25c; qt. 40c; bu. \$12.00.

**Grenell Rust-Proof Wax** Vines a little more upright and harder than the Golden Wax. The handsome deep yellow pods are

**Kentucky Wonder**

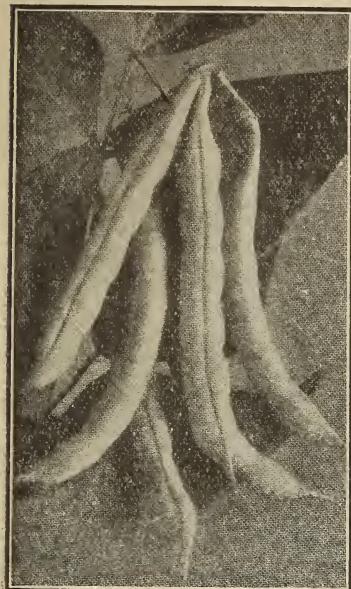
as snaps. The mature pods are often eight to nine inches in length. Seed medium sized, oval, flattened, very irregular, dark-brown. The seed even from the most matured crops is usually somewhat shriveled in appearance. Its earliness and hardiness commend it as a pole bean well adapted even for northern latitudes. Its very large green pods are certainly handsome in appearance and are unexcelled in quality by any green podded bean of its class. Pt. 30c; qt. 60c.

**BEANS—Pole**

This remarkably vigorous growing, green podded pole bean has very long pods somewhat broad, very fleshy and quite stringless as snaps. The mature pods are often eight to nine inches in length. Seed medium sized, oval, flattened, very irregular, dark-brown. The seed even from the most matured crops is usually somewhat shriveled in appearance. Its earliness and hardiness commend it as a pole bean well adapted even for northern latitudes. Its very large green pods are certainly handsome in appearance and are unexcelled in quality by any green podded bean of its class. Pt. 30c; qt. 60c.

**BEANS—Dwarf Green Podded Varieties****Early Mohawk**

This sort is so much harder than the others that it can be planted earlier and often will furnish beans fit for use before any other kind. Vines large, stout, with large, coarse, dark green leaves. Pods medium dark green, long, six to six and one-half inches, straight, coarse, flat, with long tapering points. Seed long, large, kidney-shaped, variegated with drab, purple and brown. Pt. 25c; qt. 50c.



Burpee's Stringless Green Pod

**Burpee's Stringless Green Pod**

A very desirable green podded snap sort for the home garden and largely grown for the market. The vine is vigorous, spreading and productive. The pods are medium green, five to six inches long, larger than those of the Red Valentine but are quite as fleshy, of equally high quality and remain crisp and tender longer. They mature a little later. Pt. 25c; qt. 50c.

**Extra Early Round****Pod Red Valentine**

For snaps there is nothing superior to this variety among the dwarf green podded sorts both for the home and market garden and many prefer it to the wax varieties. Vines medium to large, erect, with dark green leaves. Pods medium length, about four and one-half inches, curved, cylindrical, with crease in back, very fleshy, crisp and tender. Pt. 25c; qt. 50c.

**Refugee, or 1000 to 1**

Of compact growth and very prolific. The pods are light green, very solid and tender. Pt. 25c; qt. 50c.

**Dwarf Horticultural**

Vines very productive, compact, upright, with large leaves. Pods five to five and one-half inches come fit for use as green shelled beans early and in this condition the beans are very large, easily shelled and are about equal to the Lima in quality. One of the best sorts for green shell beans for home and market. Pt. 25c; Qt. 50c.

**Round Yellow Six Weeks,**

While this does not differ from Early Yellow Green Round Pod Kidney Six Weeks in size or general appearance of vine, pods are shorter, about four and one-half inches, much thicker, flesher and mature earlier. Seed midum sized, round, light yellow with slightly darker marking about the eye. Pt. 25c; qt. 50c.

**BEANS—Dwarf or Bush Lima**

**Culture**—Select land that is especially warm, rich, and well supplied with vegetable fibre or humus. Plant as soon as the soil has become warm in the spring. Make the rows 2 feet apart and give to each plant 6 inches space in the row. A top dressing of poultry manure, ashes, or some good fertilizer or compost around the plants will be of much benefit in hastening maturity and increasing the yield.

**Dreer's Bush Lima** A dwarf variety of the Dreer's Improved Lima. The beans grow close together in the pods, producing 3 to 4 and sometimes 5 in a pod, and are thick, sweet and succulent. Pt. 35c; qt. 50c.

**Burpee's Bush Lima** True bush form of large white Lima, bush 15 to 20 inches high, 24 to 30 inches diameter, supported by its own thick stems. For productiveness and quality of beans it is not surpassed. Pt. 35c; qt. 60c.

**Fordhook Bush Lima** An improved dwarf Lima of the Kumerle type. The plant is vigorous and erect growing, bearing well above the ground. The pods, which are produced in large clusters, are medium green, about four and three-fourths inches long, and each contain three to five large beans of exceptionally fine quality. It is much more productive than Kumerle and matures earlier. Seed large, irregularly oval in shape, very thick, white with greenish tinge. We consider this a decided acquisition to the dwarf limas, possibly the best of the class. Pkt. 15c; pt. 35c; qt. 60c.

**BEANS—Pole Lima**

**Ideal Pole Lima** One of the largest and most valuable Lima beans yet introduced. Vines unusually vigorous, very productive, bearing large clusters of broad pods, each six to seven inches long, and containing four to six large beans of most excellent quality. While the variety matures a little later than Seibert's Early Lima, the pods are much larger and no Lima grown is more attractive. Pt. 25c; qt. 50c.

**King of the Garden Lima** Vines very vigorous and productive. Pods five to six inches long, filled with four or five immense white beans of the finest quality. On account of its large pods it is a favorite with market gardeners. It will come into bearing sooner and will make larger pods if not more than two vines are left to grow on a pole. Pt. 40c; qt. 75c.

**Seibert's Early Lima** In earliness, ease of shelling, size, beauty and quality of early Limas for either the garden or market. The vine is vigorous, very productive and continues so from the very first to the last of the season; so that although the pods rarely contain more than four beans the total yield is enormous. Pods about five inches long. The green shelled beans are very large, very tender and of the finest quality. Pt. 25c; qt. 50c.

**Jersey Extra Early Lima**

Large, early and productive. Pt. 25c; qt. 50c.

Ruebe (Gr.)

## BEETS

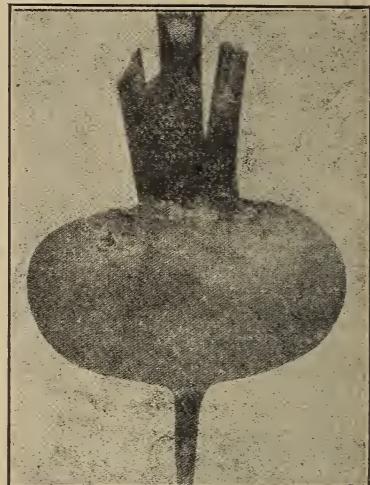
Barbabietola (It.)

The best results are obtained on a deep, rich, sandy loam. If wanted very early, sow such sorts as Crosby's Egyptian or Detroit Dark Red in hotbeds and transplant, cutting off the outer leaves. For general crop sow in freshly prepared soil as soon as the ground will permit, in rows eighteen inches apart covering about an inch deep and pressing the soil firmly over the seed. For winter use the turnip varieties may be sown in June so as to mature late in the season.

**Extra Early Egyptian** The best variety for forcing and excellent for first early crop out of doors, being very early with small tops. Root very dark red, moderately thick, a little rounded on top, distinctly flat on the bottom, and about two inches in diameter when mature. Flesh dark purplish red, zoned lighter shade. Oz. 20c;  $\frac{1}{4}$  lb. 40c; lb. \$1.50.

**Early Wonder or Crosby's Egyptian** The name of this variety is misleading, as it resembles the Egyptian only in its extreme earliness. Tops small. The beets are flattened globe shaped and very smooth. Exterior color of beet bright red. The flesh of our strain is bright vermillion-red, very sweet, tender and of excellent quality. It becomes fit for use sooner than any other variety. These beets mature so evenly that every beet can be pulled in two weeks. Oz. 20c;  $\frac{1}{4}$  lb. 60c; lb. \$2.00.

**Detroit Dark Red** We believe this is the best beet for the market and home garden, and on account of its uniformly deep rich color the most desirable for canning. Tops small, upright in growth. Very smooth and of dark blood red color. Flesh is deep vermillion-red, zoned with a lighter shade of the same color. Careful comparisons with all the prominent varieties on the market in this country and in Europe prove that the Detroit Dark Red Beet is the most uniform in shape and size and the most attractive in color. It is unsurpassed in quality. Oz. 20c;  $\frac{1}{4}$  lb. 75c; lb. \$1.50.



Extra Early Egyptian Blood Turnip



Detroit Dark Red

**Early Eclipse**

An early beet especially desirable for the home garden. Tops small. Root bright deep red, smooth, round. Flesh bright red, zoned with pinkish white; very sweet, crisp and tender. Oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.50.

**Edmand's Early Blood Turnip** Tops short and rather spreading; ribs and leaf stalks dark red. Root nearly round; exterior color dark red, interior color purplish red with little zoning; crisp, tender, sweet and an excellent keeper. Oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.50.

**Crimson Globe** A perfect beet in all respects; brilliant crimson in color, globe-shaped, with a very smooth skin, and an exceedingly small tap root, fine-grained, sweet in flavor, and tender at all times. The foliage is small, admitting of close planting. Not only a market gardener's sort, but one of the best for the kitchen garden, as it is extra early. Oz. 15c; lb. \$1.50.

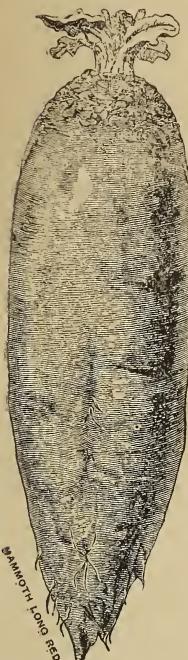
**Bastian's Early Blood Turnip** An early, bright red, turnip shaped beet of very good quality. Root thick, medium sized tap. Flesh light purplish red; crisp and tender. Oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.50.

**Dewing's Blood Turnip** Tops medium sized; leaf stem and veins dark red; leaf green. Root dark purplish red, turnip shaped with medium sized tap. Flesh carmine with purple tinge. A medium early sort, tender, sweet and a good keeper. Oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25.

**Half-Long Blood** A fine variety for either spring or winter use. The roots are smooth, flesh bright red and quality excellent. For winter use the seed should be sown early in July. Oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25.

**Swiss Chard, or Sea Kale Beet** Beisskohl (Gr.) Bietta (It.) A variety of leaf stalks, which are much superior to those of other beets for use as greens. Later in the season the broad, flat, wax-like leaf stems are cooked or pickled. This variety is worthy of a place in every garden. Known also as Silver or Spinach Beet. Oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.50.

## MANGEL BEETS, Mangel Ruben



**Mangel Wurzels** For stock feeding. We should learn a lesson from our brother farmers in Canada and grow root crops much more extensively for stock feeding, which produce the greatest results for the labor and money invested.

**Golden Tankard** A smooth, yellow fleshed Mangel. The roots are of large diameter, tapering quickly at the bottom, which is quite broad, with only a small tap-root. It grows largely above the soil and is easily harvested. It yields enormous bulk on good land and can be grown closely in rows. Oz. 10c;  $\frac{1}{4}$  lb. 80c. lb. \$1.00.

**Golden Giant, or Yellow Leviathan** Very fine large roots, growing one-half above the surface, which renders the harvesting easy. Skin a rich golden yellow, flesh pure white and sweet in flavor. It is a magnificent root easily harvested, producing enormous crops, and is a fine keeper. Oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00.

**Mammoth Long Red** This is a heavy cropper and a large yielder. The roots grow from one-half to two-thirds above the surface, and are frequently two or more feet in length by six inches usual diameter. Dark, richly colored foliage, skin dark red, flesh white with veined rings of rose pink. Oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.25.

**Yellow Ovoid** The roots are of a true globe shape, from six to eight inches in diameter. Skin rich orange yellow, flesh white with lemon yellow rings. Sweet and solid. Oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00

**Danish Sludstrup Mangel** This most wonderful Mangel is a long reddish yellow root but not so long as the Mammoth long red, it grows more above ground, is very easily harvested, and requiring but little exertion to pull same. They frequently weigh from 15 to 20 lbs. The Danish farmers prefer them smaller, 6 to 10 lbs. each, which is accomplished by allowing less space between rows. The smaller roots contain a higher percentage of dry matter, consequently the crop is more valuable. Oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00.

**Lane's Imperial** This beet will yield almost as much in bulk as the best Mangels, and contains a large percentage of sugar. Roots smooth, broad at the shoulder, gradually tapering to the base. Flesh snow-white. Oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00.

**Ideal Sugar Mangel Beet** The illustration faithfully shows the shape of this wonderful Mangel. It is a perfect chunk of a beet, being as large at the bottom as at the top. Stands two-thirds above ground. Is easily harvested even on hard soils. This new and original Mangel has been tested alongside thirty other Mangels and by strict laboratory tests on trial grounds and field demonstrations, has proven to be IDEAL and superior in quality.

### Long Red Mangel

It contains the greatest amount of dry matter

It contains the greatest amount of sugar of any Mangel.

It grows high above ground.

It is very easy to harvest.

The IDEAL MANGEL has under favorable conditions weighed as high as thirty pounds.

Skin light yellow, flesh light yellow.

We have imported the IDEAL MANGEL from the originator in Europe for many years and this particular type can only be secured from the grower in Europe. Oz. 15c;  $\frac{1}{4}$  lb. 50c; lb. \$1.75.

### NOTE THE FOLLOWING TESTIMONIAL

"Syracuse, N. Y.

F. H. Ebeling:

Dear Sir—I have grown Mangel Beets for years on my Homer Farm, but in recent years THE IDEAL MANGEL only, which I consider the most satisfactory, because of its large percentage of sugar, the ease of harvesting and the feeding results obtained. Last season I grew about four acres; yield 115½ tons of harvested Mangels. This year I intend to increase my acreage.

Yours very truly,  
CHARLES M. CROUSE."

## BROCCOLI

The heads resemble somewhat a coarse cauliflower and the culture is the same in all essentials as for that vegetable. Broccoli is well adapted only to those sections where the season is long, cool and rather moist. One of the most valuable features is that it withstands greater extremes of temperature than cauliflower.

**Early Large White French** This is probably the most useful variety. Plants very hardy, vigorous and easily grown. Heads white, compact, hard and of good quality. Oz. 40c.

Ideal Sugar Mangel Beet

**Rosenkohl (Gr.)** This vegetable is used in the fall and early winter and by some considered more tender and delicious than any cabbage. The plant resembles the cabbage, the edible part being the numerous very small heads or sprouts an inch or two in diameter formed on the stalk at each leaf joint. Culture is the same in all essentials as for cabbage, except the leaves should be broken down in the fall to give the little heads more room to grow.

**Improved Half Dwarf** Probably the most useful variety, plants growing one and one-half to three feet high, very hardy and giving compact, round sprouts of large size and good quality. Oz. 30c; lb. \$3.00.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE



## CABBAGE, Kopf-Kohl

It is difficult to give definite cultural directions for cabbage, since it is possible to have good cabbage at all seasons of the year in some part of the country, and seed can be planted almost any time of the year. There are three good seasons for sowing the seed, however—in September for late Winter and early Spring cabbages, in March for Summer and Fall cabbages, and in June and July for winter cabbages. The seed bed should be thinned early, or the plants become spindling, and do not head well. Transplanted to the field, they should be put twelve inches apart, in rows eighteen inches apart.

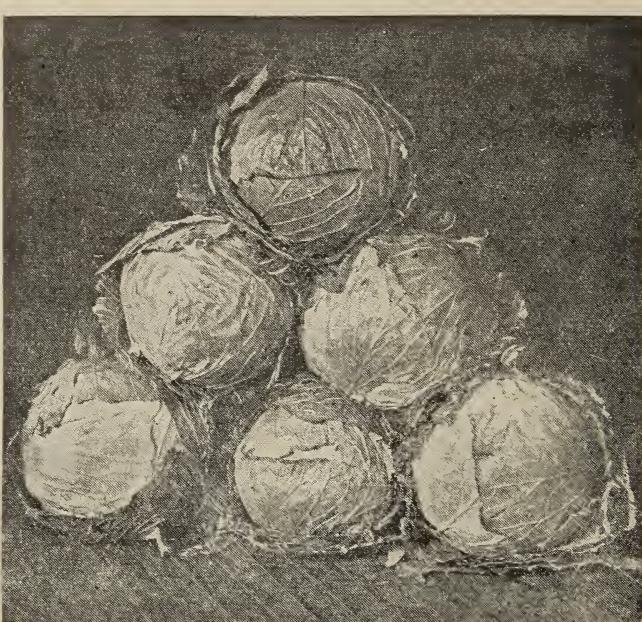
### Early Jersey Wakefield

Oz. 30c;  $\frac{1}{4}$  lb. \$1.00; lb. \$4.00.

The best early cabbage in cultivation. Forms fine solid heads of good size, pointed heads with few outer leaves.

### Copenhagen Market

This new Danish cabbage is the largest and earliest ball-shaped variety known. Heads very solid, of wonderful quality, with small cores and weighing from 10 to 15 pounds. Oz. 50c;  $\frac{1}{4}$  lb. \$1.65; lb. \$6.00.



Early Copenhagen Market, from Actual Photograph

fine outer leaves, head very large, very solid, flat but very deep and shape. Fine for Kraut. Oz. 35c;  $\frac{1}{4}$  lb. \$1.00; lb. \$4.00.

**Flat Dutch** A fine, very large, late winter variety. Very popular on account of size, quality and yield. Oz. 75c;  $\frac{1}{4}$  lb. \$1.40; lb. \$5.00.

**Late Drumhead** One of the old-fashioned big-growing sorts. So well known that a description is unnecessary. Oz. 35c;  $\frac{1}{4}$  lb. \$1.25; lb. \$4.00.

**Danish Ball-head** Short stemmed. We consider this the best strain of Danish cabbage. The heads are large, almost perfectly round, very hard, solid and of good deep green color. This strain of seed produces larger heads and consequently heavier yields than the old style Danish cabbage. A number of large fields in this locality have yielded as high as 22 tons per acre. There is no finer strain than this.

Oz. 50c;  $\frac{1}{4}$  lb. \$2.00; lb. \$ .00.

**Danish Ball-head** "Solid Emperor" strain. This is the old style Danish cabbage with tall stems and medium size heads which are deep green, very hard and keep better than any other kind. The yield is usually a few tons less per acre than the "Short Stemmed" strain, but on account of its splendid keeping qualities the "Solid Emperor" strain is sometimes preferred. Oz. 50c;  $\frac{1}{4}$  lb. \$2.00; lb. \$6.00.

**Succession** "We consider it one of our most valuable contributions to horticulture. It would be classed as a second early variety, coming in a few days later than Early Summer, but double the size. Price, oz. 40c; lb. \$5.00.

**Mammoth Rock Red** While late in maturing this has the largest heading of all the deep red varieties. Oz. 75c;  $\frac{1}{4}$  lb. \$2.50; lb. \$8.00.

**Red Drumhead or Large Red Dutch** Heads of large size, slightly rounded. Fine quality. Oz. 60c;  $\frac{1}{4}$  lb. \$2.00. lb. \$8.00.

**Globe Savoy** The earliest and sweetest of Savoys or curled cabbages. The head is round, solid. Leaves small, thick, fleshy and of fine deep green color. Excellent quality. Oz. 75c;  $\frac{1}{4}$  lb. \$1.50; lb. \$6.00.

**American Victoria Savoy** The best of the late Savoys for house use or for the market. The plant is robust with short stem. Is very much curled or wrinkled. A sure header of large size and the best of the Green Globe Drum-head Savoy. Oz. 50c;  $\frac{1}{4}$  lb. \$1.75; lb. \$6.00.

**Chinese or "Celery Cabbage"** Petsai. Oz. 40c;  $\frac{1}{4}$  lb. \$1.25; lb. \$4.50. One quart salt, mix with one tablespoon Cayenne Pepper. Sprinkle moderately into heart of cabbage. Apply once a week for several weeks. Will keep worms off and produce perfect heads. Formula given by Mr. John Huller, 507 Erikson, Eastwood, N. Y.

On August 5, 1920, Frank L. Scoville, Buckley Road, Liverpool, N. Y., R. F. D., brought in six heads of Copenhagen Market Cabbage, grown from our seed, which weighs 137 lbs. The heaviest head weighed 29 lb. This is a most remarkable showing of this celebrated strain of Early Cabbage of which we have any knowledge, and believe this to be the "Banner" specimen known to the market gardeners. Mr. Scoville will be glad to verify the above.

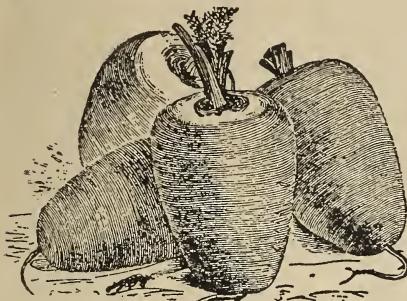
**Glory of Eukhuizen** A very large early cabbage, heads nearly round, very solid, and which has proved to be one of the most profitable of the early market cabbages. Pkt. 10c; oz. 50c;  $\frac{1}{4}$  lb. \$1.65; lb. \$5.00.

### All-Head Early

Our ALL-HEAD Early is of special value, having and uniform in size and

**CARROTS****Carrot (Gr.)**

Carrots to grow to perfection require a deeply cultivated, rich and well pulverized soil. Sow early in the spring as soon as the soil is fit to work, in drills 15 to 18 inches apart, covering one inch deep, and press the soil firmly over the seed. If desired to cultivate with horse, make rows three feet apart.



GUERANDE OR OX HEART CARROT

**Carota (It.)**

**Early French Forcing** The earliest variety in cultivation and the best suited for forcing. Tops small, finely divided. The reddish-orange colored roots are nearly round. When fully matured they are about 2 inches in diameter, but should be used before they are full grown and while young and tender. Oz. 15c; lb. \$1.50.

**Half Long Nantes** Tops of medium size, roots cylindrical and smooth, bright orange; flesh orange, becoming yellow in center, but with no distinct core. Of the finest quality and one of the most symmetrical and handsome of the medium sized sorts; excellent for the market or home garden. Oz. 15c; lb. \$1.50.

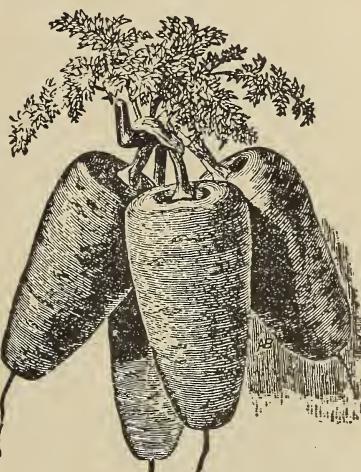
**Early Short Horn** Excellent for early planting out of doors. Tops small, coarsely divided; roots top-shaped, but tapering abruptly to a small tap; skin orange-red. Oz. 15c; lb. \$1.25.

**Guerande, or Ox Heart** Tops small for the roots which are comparatively short but often reach a diameter of 5 inches, terminating abruptly in a small tap root. Flesh bright orange, fine grained and sweet. This variety is especially desirable for soil so hard and stiff that longer rooted sorts would not thrive in it. When young excellent for table use, and when mature equally good for stock. Oz. 15c; lb. \$1.25.

**Chantenay** Tops medium sized; necks small; roots tapering slightly but uniformly from a stump rooted and smooth; color deep orange-red; flesh very crisp and tender. Although this is a medium early sort, it furnishes roots of usable size as early as any, is a heavy cropper and is undoubtedly one of the best for both the market and private garden, while its great productiveness makes it very desirable as a field sort. Oz. 15c; lb. \$1.25.

**James Intermediate** A variety intermediate between the Danvers and Long Orange. It tapers to a point not so blunt as the Danvers and is more symmetrical and not so long as the Long Orange. Oz. 15c; lb. \$1.25.

**Long Orange** The most popular of the older sorts for farm use on mellow soil. An improvement obtained by years of careful selection of the best formed and deepest colored roots. Oz. 15c; lb. \$1.25.



CHANTENAY CARROT



DANVERS CARROT

**Danvers** Grown largely on account of its great productiveness and adaptability to all classes of soil. Tops of medium size, coarsely divided. The smooth and handsome roots are deep orange of medium length, tapering uniformly to a blunt point; flesh sweet, crisp, tender and of a deep orange color. Although the roots of this variety are short, they produce as large a bulk as the longer field sorts and are more easily harvested. Oz. 15c; lb. \$1.25.

**White Belgian** Grows one-third out of the ground. Root white, green above ground, with small top. Flesh rather coarse. The roots are of large size and the variety is extensively grown for stock feeding. Oz. 15c; lb. \$1.00.

**Improved Short White** We think this variety is destined to take first rank as a field carrot, owing to its enormous productiveness and the ease with which it can be harvested. Oz. 15c; lb. \$1.00.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

FOR SALE—BIG BOY WATERLOO ENGINE—A BARGAIN

**CAULIFLOWER****Blumenkohl (Gr.)**

The Cauliflower delights in a rich soil and an abundance of water. Sow seed for an early summer crop in February or March in a hotbed. When plants are three or four inches high, transplant four inches apart in boxes or frames. In the middle of the spring or as soon as deemed prudent, the plants may be removed to open ground. Set plants from 2 to  $2\frac{1}{2}$  feet apart each way. For late Cauliflower sow the seed in a cool moist place about June 1st.



Early Snowball Cauliflower

**Sellerie (Gr.)**

**CULTURE.**—Celery seed is slow to germinate, and ample time must be given. Sow thinly; cover lightly. Keep constantly moist. Count on about 7,500 plants per ounce of seed, or  $\frac{1}{4}$  pound per acre. When the seedling plants are 3 inches high they should be clipped at the top, to favor stocky growth, or else transplanted. Celery is mostly grown under flat culture, without trenches, in rows 4 feet apart, 6 inches apart in row. For home use celery is often grown in double rows, 10 inches apart, without trenching, and banked for winter storage just where it grows, without lifting.

**Golden Self-Blanching** This is the very best celery for early use. It is in condition as early in the fall as any, and we have yet to find an extra early sort equal in quality and appearance to our stock of **GOLDEN YELLOW SELF-BLANCHING**. Critical gardeners and consumers generally depend upon this variety to produce their best early celery. Plants of medium size, compact and stocky—with yellowish green foliage. As they mature the inner stems and leaves turn a beautiful golden yellow, so that blanching is effected at a small expense of time and labor. Oz. 75c;  $\frac{1}{4}$  lb. \$2.50; lb. \$7.00.

**Columbia** An early maturing sort, unsurpassed in shape and quality. Plants of medium height, but very stocky and heavy. The stalks are thick—almost round. Similar to the Giant Pascal. With color of a rich yellow tint. Like the Golden Self-Blanching and which it resembles when trimmed and bunched ready for market. The foliage of a light shade of green tinged with yellow. Follows the Golden Self-Blanching. Quality exceptionally fine. Some connoisseurs consider it equal to the Golden Self-Blanching. Oz. 40c;  $\frac{1}{4}$  lb. \$1.50; lb. \$6.00.

**White Plume** A handsome, very early sort. In great demand as a market celery, owing to its very attractive appearance. Requires a short time only for blanching. Leaves light green with tips almost white. As the plants mature the inner stems and leaves turn white, and require to be earthed up but a short time before they are in condition for use. While very attractive we do not consider it equal to the Golden Yellow Self-Blanching. Oz. 25c;  $\frac{1}{4}$  lb. \$1.00; lb. \$3.00.

**Easy Blanching** A new variety of great merit. The habit is dwarf and compact, with light green foliage which has almost a yellowish hue. It is very easily blanched and might be termed a second-early variety, as it is ready for use to follow Golden Self-Blanching. Due to the solidity of the stalks it is a first-rate keeper, and may therefore be grown for winter and spring use. The flavor is first class, while the stalks are pure white, heavy and crisp. Oz. 35c;  $\frac{1}{4}$  lb. \$1.00; lb. \$3.50.

**Giant Pascal** A splendid green leaved late variety, fine for fall and early winter use. It blanches to a beautiful yellowish white color. Very solid and crisp, and of a fine nutty flavor. Stalk of medium height, very thick. The upper portions nearly round. Splendid for fall or winter use, especially in the South. Oz. 35c;  $\frac{1}{4}$  lb. \$1.00; lb. \$3.00.

**Winter Queen** This is without question the most valuable variety of celery for winter and spring use, even excelling the celebrated **PERFECTION HEARTWELL** as a winter keeper. It is also much stouter, thicker and heavier with double the amount of heart of any known celery. Oz. 35c;  $\frac{1}{4}$  lb. \$1.00; lb. \$3.50.

**Sutton's Superb Pink** English grown seed stock. Very crisp, sweet and tender. Favorite with the English gardener. The finest of all celery for family use.  $\frac{1}{4}$  oz. pkt. 50c.

**Cavolofole (It.)**

The Cauliflower delights in a rich soil and an abundance of water. Sow seed for an early summer crop in February or March in a hotbed. When plants are three or four inches high, transplant four inches apart in boxes or frames. In the middle of the spring or as soon as deemed prudent, the plants may be removed to open ground. Set plants from 2 to  $2\frac{1}{2}$  feet apart each way. For late Cauliflower sow the seed in a cool moist place about June 1st.

**Early Snowball**

The most popular and profitable of the Cauliflower family. Heads of uniform size, snowy white, very tender, and owing to its attractive appearance a most desirable market variety. This seed is imported from our Denmark growers under contract, being the best known source for cauliflower seed. Oz. \$2.75;  $\frac{1}{4}$  lb. \$10.00.

**Danish Giant or Dry-Weather**

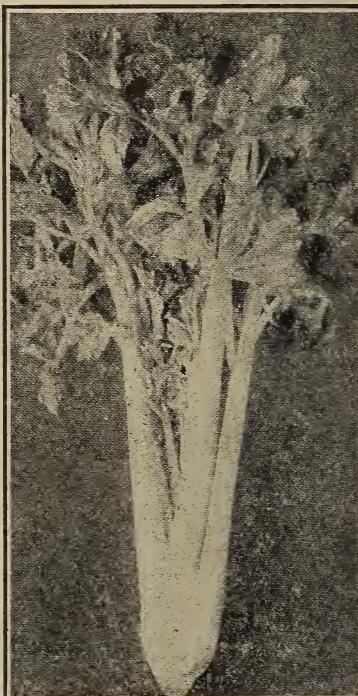
This strain of Snowball Cauliflower is especially valuable for high ground, as it is more vigorous than the Early Snowball, and stands dry weather better. The heads are a little larger than Snowball and mature a week or two later and have more leaves to protect them from the sun and frost. Oz. \$2.75.

**Extra Early Paris**

An excellent early sort, and under favorable conditions will produce splendid results. Not as sure a header as the Snowball and Erfurt. Oz. \$1.00;  $\frac{1}{4}$  lb. \$3.75.

**CELERY****Sedano (It.)**

thinly; cover lightly. Keep constantly moist. Count on about 7,500 plants per ounce of seed, or  $\frac{1}{4}$  pound per acre. When the seedling plants are 3 inches high they should be clipped at the top, to favor stocky growth, or else transplanted. Celery is mostly grown under flat culture, without trenches, in rows 4 feet apart, 6 inches apart in row. For home use celery is often grown in double rows, 10 inches apart, without trenching, and banked for winter storage just where it grows, without lifting.



Golden Yellow Self-Blanching

**CELERIAC, or GERMAN CELERY**

**Large Smooth Prague** The best of all with a large smooth root of splendid quality. Pkt. 0c; oz. 35c.  
**Apple Shaped** Not as smooth as the Prague, but of equal quality and good form. Pkt. 10c; oz. 35c.  
**Turnip Rooted** This is the most popular and best known variety. Per pkt. 10c; per oz. 35c.

Cichorien-Wurzel (Gr.)

**Witloof** Known in restaurants as French Endive. Sown in May and June in drills. Transplant or thin to 6 inches; treat as endive, except that late in summer or fall it should be gradually banked up like celery. The stalks, when blanched, make a delicious salad. Oz. 30c; lb. \$3.50.

**Improved** Large leaves, suitable for greens. Oz. 15c, lb. 75c. **Large Rooted Sort** Used for coffee. Oz. 25c; lb. \$3.00.

Welschkorn (Gr.)

A rich, warm, alluvial soil is the best, but excellent sweet corn can be raised on any good, ordinary soil, if it is deeply and thoroughly worked before planting. In the North sweet corn should be planted as early as can be done without risking great loss from frosts or from rotting of the seed in the soil. If planted in rows, make the rows about three and one-half feet apart and place the seed fourteen to sixteen inches apart in the row, covering one inch deep with fine soil firmly pressed down. If planted in hills, make the hills for the early varieties three feet apart each way and plant six kernels to the hill. For the later sorts the hills should be not less than three and one-half feet apart each way. Hoe frequently, and when six inches high leave three or four plants in the hill.

**Early Mayflower** A new extra-early white variety, with large, well-filled ears; very sweet and tender. Pt. 30c; qt. 50c; 1/2 pk. \$1.75.

**Mammoth White Cory** We consider this the best extra early corn. Ears very large for so early a variety. Stalks about 4 feet high, each generally bearing two large, finely shaped ears which become fit for use as early as those of any variety in cultivation. They are twelve-rowed, 6 to 7 inches long. Grain large, broad, very white and of remarkably good quality. Qt. 40c; bu. \$12.00.

**Crosby's Early** A most excellent early variety of fine quality. Ears five and one-half to six and one-half inches long, fourteen rowed or more, with short nearly square grains which are very white, sweet and tender. Plants about four and one-half feet high. Qt. 40c; bu. \$10.00.

**Golden Cream** (Or Improved Golden Bantam). A distinct extra early variety. A cross between Golden Bantam and Country Gentleman. The ear is similar in appearance to Country Gentleman, but the color is rich cream, cooking to a light golden yellow. The flavor is rich, nutlike and delicious. The stalks make a rapid growth, producing from 2 to 4 ears each. This new variety possesses genuine merit and we recommend that all lovers of good corn give it a trial. Qt. 50c; 1/4 bu. \$3.00; bu. \$10.00.

**Golden Bantam** A beautiful golden yellow, sweet and tender. In season it comes in mid-summer about the time of Improved Champion. A most important point in favor of Golden Bantam is that it holds its quality longer after being picked than any other variety we have tested (one of the greatest advances in sweet corn in this respect in years). As a market variety for wagon or fancy grocery trade, Golden Bantam has many points in its favor. It is of merchantable size, and in addition it possesses superlative quality. Qt. 50c; 1/4 bu. \$4.00; bu. \$12.00.

**Golden Evergreen Sweet Corn** New variety, extra fine, very sweet and tender, and keeps in eating condition longer than most sweet corns. Ten days to two weeks earlier than Stowell's Evergreen. A cross with Stowell's Evergreen and Sweet Orange, which is a second early, yellow, very tender and extra sweet variety. Golden Evergreen has a medium sized ear and stalk, making it a desirable sweet corn for market gardeners. Originated a few years ago by Charles Coolidge, a market gardener of Ontario county, N. Y. Took first premium at the N. Y. State Fair in 1916 and 1917, only times exhibited. Qt. 50c; 1/4 bu. \$4.00.

**Howling Mob** This corn originated in Ohio and it became so popular it was given the above name. The endeavor of the originator of this corn, was to get as large an ear as possible, early in the season and of sweet flavor. This corn is of strong and vigorous growth, from 4 1/2 to 5 feet high and has abundant foliage and generally produces to ears to each stalk. Ears measure 7 to 9 inches in length with 12 or 14 rows. The corn is pearly white, usually covered with a heavy husk which extends well over the tip of the ears which affords a good protection from worms and birds. Qt. 40c; pk. \$3.00; bu. \$10.00.

**Perry's Hybrid** This is a very popular Eastern variety. Stalks about 6 feet high, bearing two ears about 8 inches long, 12 or 14 rowed, which often have a red or pink cob; grain medium sized, cooking very white and tender. Matures a little later than early Minnesota. Qt. 50c; 4 qts. \$2.00; bu. \$10.00.

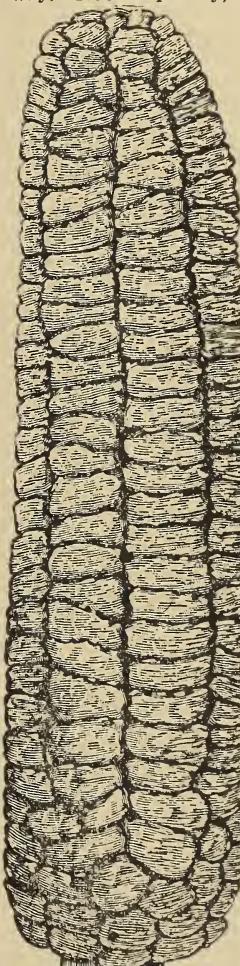
**Black Mexican** This corn, when in condition for the table, cooks a bluish black early sort; ears about 8 inches long, usually eight-rowed. Qt. 40c; 4 qts. \$1.50; bu. \$10.00.

**CHICORY***Cicoria selvatica* (It.)

Known in restaurants as French Endive. Sown in May and June in drills. Transplant or thin to 6 inches; treat as endive, except that late in summer or fall it should be gradually banked up like celery. The stalks, when blanched, make a delicious salad. Oz. 30c; lb. \$3.50.

**SWEET CORN**

Mals (It.)



GOLDEN BANTAM CORN.

**Early Evergreen** We have tested many samples of Evergreen corn that were claimed to be earlier than Stowell's Evergreen and to be just as good, but we have never found any of them so valuable as the stock of this variety we offer. It has been proven both on our trial grounds and in the field to come into fit condition for use much earlier than Stowell's Evergreen and to remain in condition quite as long. Ears about seven inches long, with fourteen to twenty more or less irregular rows with very deep grain which is of the very best quality. Plants average from six and one-half to seven feet high and bear resemble those of Stowell's Evergreen, but differ in earliness and we think are more uniform. A standard main crop variety for home garden and market; also well adapted for canning. Qt. 50c; 4 qts. \$2.00; bu. \$10.00.

**Stowell's Evergreen** This standard main crop variety excels all other late sorts in sweetness and productiveness. It is more popular than any other for canning, for marketing and for the home garden. Great care has to be exercised in the selection of stock to grow seed from, as this variety has a tendency to deterioration and a shorter grain, which makes it less sugary and desirable. We have a large and growing trade among canners and market gardeners who must have a genuine Stowell's Evergreen, and our stock is known as the safest for all purposes. Qt. 50c; 4 qts. \$2.00; bu. \$10.00.

**Country Gentleman** There is no sweet corn that compares with the Country Gentleman for sweetness. It is the variety par excellence where quality is desired. Market gardeners who make a specialty of growing for hotels and high class restaurant trade use this as a main crop in preference to any other. For home use it will be found superior and it is very productive. The fact that it is a favorite variety with canners proves its merit. Qt. 50c;  $\frac{1}{4}$  bu. \$3.50; bu. \$10.00.

**Early White Cob Cory** An extra early variety with remarkably white grains especially when cooked. Ears are six to seven inches long. Kernels are large, of good quality. Qt. 40c; 4 qts. \$1.50; bu. \$10.00.

**Early Red Cob Cory** One of the best extra early varieties. Ears are about six inches long and eight-rowed and well filled. This variety does especially well in the coast counties. We have customers who will not plant any other sweet corn than Red Cob Cory. Qt. 50c; 4 qts. \$1.50; bu. \$10.00.

### CORN SALAD

Feldsalat (Gr.)

Large round leaved or small seeded. Oz. 20c; lb. \$1.75.

Valeriana (It.)

**Curled.**

**CHERVIL, Gartenkerbel**

Treat like parsley. A valuable flavoring herb. Oz. 20c. lb. \$2.00

Kresse (Gr.)

**CRESS OR PEPPERGRASS, Kresse**

Agretto (It.)

**Cress** Fine for salads.

Garden curled. Oz. 15c; lb. 85c.

**Water Cress, Dwarf**

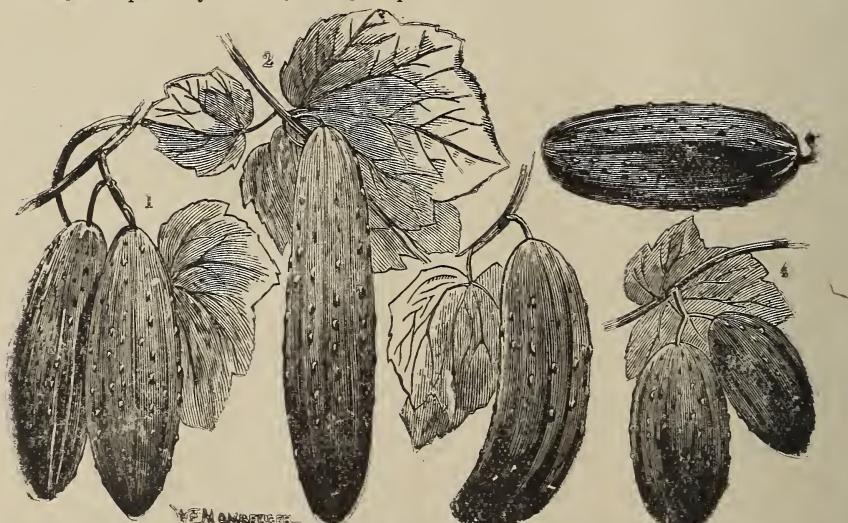
Fine curled, grows in shallow water. Oz. 60c; lb. \$6.00.

Gurken (Gr.)

**CUCUMBERS**

Cetriolo (It.)

**CULTURE.**—Flourish best in a rich, warm, sandy loam. Sow when danger of frost is over in hills four or five feet each way. As the young plant has many enemies sow thickly half an inch deep, and thin out finally to three or four plants to the hill. Use one ounce of seed to 75 hills, two to three pounds to the acre. Gather cucumbers by cutting, not tearing. Leave none to ripen if you want a full crop.



The Above Shows the True Type of Cucumbers

No. 1, Early Cluster; 2, Long Green; 3, Early Frame; 4, Early Russian; 5, White Spine

**Early Russian** The earliest variety and probably the hardest. Fruit 3 to 4 inches long,  $1\frac{1}{2}$  to 2 inches in diameter, oval, pointed at both ends and covered with fine, small spines. Vine of vigorous growth and productive. Oz. 15c;  $\frac{1}{4}$  lb. 40c;  $\frac{1}{2}$  lb. \$1.25

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

**Early Cluster** An early and very productive variety. Fruit small, thick at the end, dark green, but lighter at blossom end, borne in pairs or clusters and largely near the root. Used to some extent for pickles. Oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25.

**Early Frame, or Short Green** Fruit short, straight, small at each end, bright green, lighter at blossom end, and, although small, attractive and of excellent quality. Used both for slicing and pickling. Vine vigorous and produces fruit of suitable size for slicing. Oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25.

**Improved White Spine, or Arlington** Great bearer; standard for outdoors. Oz. 15c,  $\frac{1}{4}$  lb. 40c; lb. \$1.50;

**Peerless White Spine** Larger than Improved White Spine. Excellent for forcing. Oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.50.

**Long Green** Fruit from 10 to 12 inches long, dark green, very firm and crisp. It is used largely for slicing, but on account of its firmness and crispness is popular with some for pickling and is especially desirable, when mature, for sweet pickles. Vine of strong, vigorous growth, and productive. Oz. 15c;  $\frac{1}{4}$  lb. 60c; lb. \$1.50.

**Cumberland** A distinct variety of the hardy White Spine type. Fruit large, symmetrical, dark green and thickly set with fine spines. Though especially recommended for pickling, it is valuable for slicing, being of excellent quality. Vine vigorous, prolific, bears a long time. Oz. 15c;  $\frac{1}{4}$  lb. 60c; lb. \$1.50.

**Japanese Climbing** Vigorous grower, with strong, grasping tendrils which enable it to climb trellis, netting or brush. Fruit of good size. Oz. 20c;  $\frac{1}{4}$  lb. 60c; lb. \$2.00.

**Boston Pickling** A favorite for pickling. Medium size; smooth; light green; productive. Oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25.

**Chicago Pickling** This variety is preferred above all others by some of the largest pickling establishments in Chicago and elsewhere. It is one of the best for the purpose, combining almost every good quality, and being alike satisfactory to grower and pickle maker. I have a choice strain of this seed. Oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25.

**Rollison's Telegraph** A standard greenhouse variety. English greenhouse grown stock. Pkt. 50c.

**Small Gherkin** A curious, rough, little cucumber, used exclusively for pickling, for which purpose it is in high favor. Makes handsome pickle of first-class quality. Oz. 20c;  $\frac{1}{4}$  lb. 60c; lb. \$2.00.

**TO PROTECT MELONS, CUCUMBERS AND SQUASH FROM BUGS, ETC.**  
Sow a ring of buckwheat around the vines. (Do not cover.) Also place some moth balls on the ground around the melons to keep off the bugs, etc.

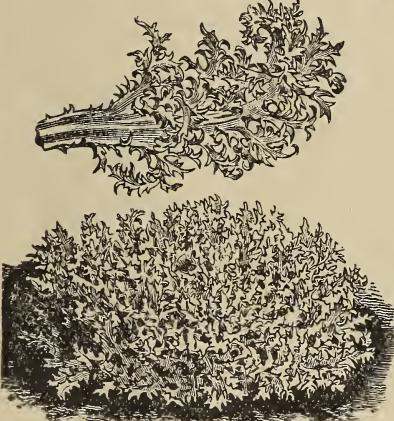
### EGG-PLANT

Petronciano (It.)

**Eierpflanze (Gr.)** CULTURE.—Plant the seed in March in a hotbed, or, for family use, in flower pots in a warm window. Transplant in open ground after weather has become warm and settled, in rows two feet apart each way. They require rich soil and as favorable a location for warmth as the garden will afford. One ounce to one thousand plants.

**Black Beauty** Considered the earliest of the large fruited varieties. Color, a rich purple. Pkt. 10c; oz. 50c;  $\frac{1}{4}$  lb. \$2.00; lb. \$6.50.

**New York Improved Purple** Surpassing all in size of fruit. Standard market sort. Oz. 50c;  $\frac{1}{4}$  lb. \$2.00; lb. \$7.00.



Endive

**Knoblauch (Gr.)**  
Sets, Oz. 25c; lb. \$1.00.

### GARLIC

Aglio (It.)

### HERBS KALE,

See page 34.

Cavolo rapa (It.)

**Blaetterkohl (Gr.)**  
For early use, sow in May and transplant in June, and treat generally as for cabbage.

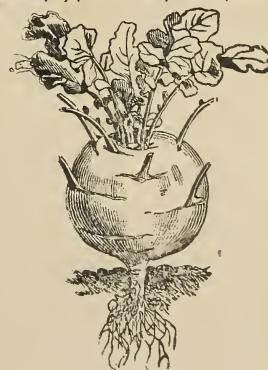
**Dwarf Curled Scotch** A standard variety. Pkt. 5c;  
oz. 20c;  $\frac{1}{4}$  lb. 50c; lb. \$1.75.

**Knollkohl (Gr.)**  
White, above ground. Pkt. 10c; oz. 25c; lb. \$3.00.  
Pulpe, above ground. Pkt. 10c; oz. 25c; lb. \$3.00.

**Porree (Ger.)**  
**American Broad Flag** The standard variety. Pkt. 10c;  
oz. 35c;  $\frac{1}{4}$  lb. \$1.00; lb. \$3.50.

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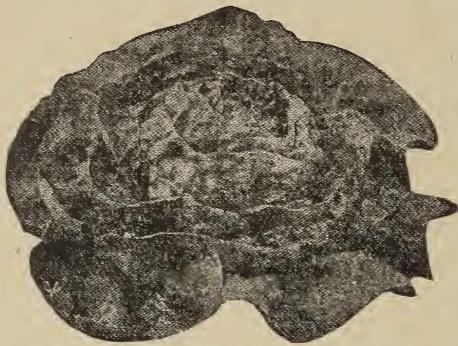
**KOHl-RABI** Cavolo rapa (It.)



Kohl-Rabi

## Kopfsalat (Gr.)

**CULTURE.**—Lettuce thrives on nearly all soils, but because the growth should at all times be rapid to insure crispness and best flavor, the soil should be heavily enriched and well worked before planting. Lettuce being quite hardy, seed may generally be sown as soon as ground can be fitted, as, while prolonged or continued freezing will kill the plants, they are but little injured by an ordinary frost. Seed may also be sown in the hotbed in gentle heat, and the plants, if well hardened by having been often exposed to the air, may usually be set in the open ground very soon after the time suggested for sowing seed outdoors.



Big Boston Lettuce

being fit for cutting. The plant is upright, forms a loose cluster of large thin bright green leaves, savoyed, finely crumpled at the edges. Very attractive and desirable for garnishing. Pkt. 5c; oz. 20c; lb. \$1.75.

**Onondaga** This remarkable variety was introduced by us many years ago. A splendid greenhouse sort, slightly fringed, forming a semi-head, a wonderful shipping and keeping variety, green under glass and of slightly reddish cast when grown in the open. Tender, crisp. Pkt. 5c; oz. 15c; lb. \$1.50.



Grand Rapids Lettuce

**Denver Market** Cabbage, butter head, the old standard variety, identical with White Seed Tennisball. Pkt. 5c; oz. 15c; lb. \$1.50.

**New York Head** Curled or crisp as Iceberg, dark green heads somewhat conical. Pkt. 5c; oz. 15c; lb. \$1.50.

**Old Lettuce Seed for Birds** oz. 5c, lb. 50c.

## LETTUCE

## Lohuga (It.)

**Big Boston** The best large heading and suitable for forcing. It produces fine large yellow heads. Leaves are white, crisp, tender and sweet. Pkt. 5c, Oz. 20c; lb. \$1.75.

**Black Seeded Simpson** The most popular loose leaf variety. Crisp and tender. It grows a fine green leaf. The inner leaves form a loose head. Pkt. 5c; oz. 15c; lb. \$1.50.

**Simpson Early Curled** (White Seeded)—A very extensively used early loose leaved or clustering variety. Leaves light green, slightly frilled and much blistered. Crisp, sweet and tender. Especially adapted for thick sowing. Very fine for poultry feeding. Pkt. 5c; oz. 15c; lb. \$1.50.

**Grand Rapids** (Black Seed) — As a greenhouse forcing lettuce this stands at the head of the list. Quick growing, very hardy—not liable to rot. Will remain in good condition several days after

being cut. The plant is compact and forms a cabbage-like head which remains in condition longer than summer-head sorts. Outer leaves bright, yellowish green and broad. Somewhat crumpled and frilled edge and with a distinctive mid-rib. Inner leaves white, crisp and sweet. Pkt. 5c; oz. 20c; lb. \$1.50.

**Paris White Cos** The Cos Lettuce differs in shape from other sorts. Head being elongated and of conical form, about nine inches in height and about six inches in diameter. Outer coloring yellow green. To secure best results it should be tied up. Pkt. 5c; oz. 15c; lb. \$1.75.

**Yellow Seeded Butter** Cabbage Butter head, medium large, medium green, leaves crumpled and rather thick. Is similar or same as silver ball. Pkt. 5c; oz. 15c; lb. \$2.00.

**Deacon Head** Cabbage Butter head, medium size, medium green, leaves thick. Does not form a decided head but a well folded one, which is very oily and golden yellow inside. Pkt. 5c; oz. 15c; lb. \$1.50.

## MUSKMELOON

## Popone (It.)

**Melone (Gr.)** The Muskmelon succeeds best in warm, rich soil. While both plant-food and humus are necessary to all plants, all vines require an extra amount. Manure contains both, while rotted turf and commercial fertilizer combined supply both. If manure is used it should be well rotted, finely pulverized and evenly distributed throughout the soil. If plant-food is to be supplied by the use of commercial fertilizers, then land should be selected which, a short time before, was in grass, the turf well pulverized and the fertilizer, like the manure, evenly distributed. The muskmelon should not be planted until all danger of frost is past. Plant from 4 to 5 feet apart each way, allowing ten or more seeds to each hill, and cover with an inch of soil. If young plants are attacked by the striped beetle, dust with either air-slaked lime, soot or ashes, well diluted with fine road dust, taking care, however, that none of these is used too freely. Thin to three or four plants to the hill.

**Paul Rose, or Petoskey** This excellent melon is the result of a cross of the Osage and Netted Gem, and combines the sweetness of the former with the appearance of the Gem. Fruit oval, finely netted, about 5 inches in diameter. Flesh rich orange and even sweeter than the Osage. Oz. 15c; 1/4 lb. 40c; lb. \$1.25.

**Emerald Gem** Fruit of medium size, skin very dark green, generally smooth; flesh thicker than of most varieties, in color rich salmon, and not surpassed in richness and flavor. More certain to produce uniformly good melons than is perhaps any other variety. Oz. 20c;  $\frac{1}{4}$  lb. 50c; lb. \$1.75.

**Rocky Ford (Netted Gem)** More largely grown than any other of the small or basket melons and shipped in enormous quantities from Colorado and Arizona. Fruit oval, slightly ribbed, densely covered with fine netting; flesh green, thick, very sweet and of rich flavor. Oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25.

**Improved Green Nutmeg** Large, round, slightly flattened at both ends, ribbed and covered with coarse netting; flesh thick, of fine flavor. Vine vigorous and productive. Oz. 20c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25.

**Benders Surprise** A fine variety of exceptional merit. The fruits are round and deeply ribbed and finely netted. A salmon fleshed, thick meated, delicious in flavor. Oz. 25c;  $\frac{1}{4}$  lb. \$1.00; lb. \$3.50.

**Extra-Early Hackensack** Fruit of good size, nearly round. Flesh green, a little coarse, but very juicy and sweet, and of good flavor. Vine very productive. Oz. 20c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25.

**Vick's Irondequoit** The flesh is a beautiful dark orange, and the closely netted skin is pale yellow when ripe, giving it a most attractive appearance when exposed for sale or when cut for the table. The fruit is unusually large, in fact it is one of the largest varieties grown. The melons are distinctly ribbed and beautifully netted. The flesh is solid and very thick, having but a small seed cavity. The flavor of a well ripened "Irondequoit" is delicious, sweet, rich, spicy and melting—the very highest quality in muskmelons.  $\frac{1}{2}$  oz. 25c; oz. 20c;  $\frac{1}{4}$  lb. 75c; lb. \$2.50.



**Honey Dew Melon** "Sweetest Melon Ever Grown." During the fall of 1915 the first Honey Dew Melons were placed on the market. The product from slightly over two acres netted \$3600.00 on the Chicago market. These melons have sold at wholesale from 35 cents to \$1.50 on Eastern Markets. The rind is a dull white when ripe. Part of the melon shows a slight check in the rind like a tendency to net. This appears when the melon is ready to pick. The size runs from six to seven inches in diameter from top to bottom, and eight inches in length. The matured melons are practically all of the same shape and size. Flesh is a light green and is almost honey sweet. This melon is the best of all shippers and will keep several weeks, so there is practically no loss from spoiled melons in shipping. This is one of the best market melons grown. Vines vigorous, and produces six to ten fine melons to the hill. Oz. 30c;  $\frac{1}{4}$  lb. 90c; lb. \$3.00.

#### Melone (Gr.)

#### WATERMELON,

#### Popone (It.)

**Sweet Heart** Introduced in 1894 and is very popular as a shipping melon particularly in the South. Vine vigorous and very productive, ripening its fruit evenly. Fruit of largest size, oval, very heavy, rind thin but firm; color very light green, very slightly veined with a little darker shade. Flesh bright red, firm but very tender and sweet. Fruit remains in good condition a long time after ripening. Seed black. Our stock will be found very uniform in shape, size and color. Oz. 10c; lb. \$1.00.

**Cuban Queen** This magnificent variety was originally brought from the West Indies, and seed first offered in 1881. The melons are of large size, oblong in form, slightly tapering at the stem end. Skin beautifully striped in dark and light green. Rind quite thin, but tough enough for shipping. Flesh bright red, remarkably firm, and of luscious quality. Oz. 10c, lb. \$1.00.

**Peerless** Sometimes sold as Ice Cream. One of the best early sorts for the home garden and for market gardeners who deliver direct to consumers. Vine moderately vigorous, hardy, productive. Fruit medium sized, oval, but somewhat uneven in shape, bright green, finely veined with a darker shade. Rind thin, flesh bright scarlet, solid, crisp and very sweet. Seed white. Oz. 10c; lb. \$1.00.

**Cole's Early** A very early melon; just right in size and shape. Oz. 10c, lb. 75c.

#### REMEDY FOR SQUASH, CUCUMBER AND MELON BUGS

Put three or four moth balls on the ground near each hill. (Do not cover moth balls.) This will drive away the bugs. Also, sow a little buckwheat near the hills and this will also keep away the bugs. This is a very cheap and easy way of protecting your vines from heavy annual losses.

#### MUSHROOM

The Mushroom is an edible fungus of which there are numerous varieties. We handle the ordinary commercial variety of a creamy white color with loose gills which underneath are of pinkish-red, changing to liver color. The mushroom produces "seed" or spores and there is developed a white, fibrous substance in broken threads, called spawn, which is developed and preserved in horse manure, pressed in the form of bricks. Mushrooms can be grown in cellars, in sheds, in hotbeds or sometimes in the open air, the great essential being a uniform degree of temperature and moisture. Our space is too limited here to give the necessary cultural directions, but these are published in book or pamphlet form.

**Pure Culture Mushroom Spawn** By a newly discovered process of selection and grafting, the spawn is scientifically propagated so that large, vigorous and finely flavored mushrooms are reproduced. The sort we offer is earlier, more productive and a marked improvement on wild spawn, either French or English. Brick (about  $1\frac{1}{4}$  lbs.) 35c; 5 bricks \$1.50.

#### MUSTARD

**White English** Leaves comparatively small and smooth, deeply cut or divided and of medium dark green color. Plant upright, of rapid growth and soon bolts to seed. Leaves, when young, are mild and tender. Seed light yellow and larger than that of other varieties. Oz. 10c; lb. 75c.

**Southern Giant Curled** Leaves large, light green with tinge of yellow, much crimped and frilled at edges. Plant upright or slightly spreading in growth. Highly esteemed in the South for its vigorous growth, hardiness and good quality. Seed small, reddish brown to nearly black. Oz. 15c; lb. \$1.25.

## NASTURTIUM

**Tall Mixed Garden** Sometimes called Indian Cress. Grown not only for ornament but the beautiful orange colored flowers and foliage are used for garnishing and the young leaves or shoots are excellent for salads. The green seed pods are greatly esteemed by many for use in mixed pickles. Early in spring sow, preferably in rather light soil, in rows 3 feet apart and 2 inches apart in the row, covering one inch deep. When the young plants are about four inches high thin to six inches apart in the row. The vines can be supported if so desired by stakes, strings or brush. Oz. 15c; lb. \$1.25. For other varieties of Nasturtium see flower seed pages.

## OKRA, OR GUMBO

The young seed pods are used in soups, stews, catsups, etc. Highly esteemed in the South. After danger of frost is past, the ground being warm and in good condition, plant in rows about two and one-half feet apart, covering with about an inch of fine soil firmly pressed down. When about three inches high, thin to about one foot apart in the row. Cultivate and keep free from weeds. The pods are in best condition for use when from one to three inches long.

**White Velvet** Plant is about three and one-half feet high, early maturing and very productive. Pods white, long, smooth and are tender until nearly full sized. Oz. 10c; lb. \$1.00.

Zwiebel (Gr.)

## ONIONS

Cipolio (It.)

### How to Raise Onions for the Market

**THE SOIL.**—We prefer a soft, dark sandy loam, not too fine. This is much better if it has been cultivated with hoed crops, kept clean from weeds and well manured for two years previous, because if a sufficient quantity of manure to raise an ordinary soil to a proper degree of fertility is applied at once, it is likely to make the onions soft. The same result will follow if we sow on rank mucky ground or on that which is too wet, and it is impossible to raise either a large or profitable crop on stiff clay, very light sand or gravel.

**PREPARATION.**—Onions respond well to very liberal manuring. As much as forty loads of stock manure well composted or one ton of high grade commercial fertilizer per acre needed will vary with the soil, the seed used and the kind of onions desired. Thin seeding gives much larger onions than thick seeding. Four or five pounds per acre is the usual quantity needed to grow large onions. We prefer a drill that sows a very close row.

**CULTIVATION.**—As soon as the young plants can be seen in the rows give a shallow working either with rake or some other tool that pulverizes well the whole top soil. Work the crop again in a few days with a hoe or tool that cuts the ground over, this time as closely as is possible to the row without injury to the young plants; follow as quickly as possible with a thorough hand weeding.

**Prizetaker** Grows to an immense size and for fall marketing is unexcelled. Although up hard and firm; very fine grained, and of mild, delicate flavor. The outside skin is rich yellow while the flesh is white. To get the best results from this onion the seed is sown in beds and transplanted. It will, however, make a good crop if sown in the ordinary way. Oz. 25c; lb. \$2.50.

### Southport White Globe

This grows to a very large size and is a perfectly globe-shaped onion. Color is a clear pure white. This variety is used by the market gardeners for bunching. Oz. 30c; lb. \$3.50.

### Early Flat Yellow Danvers

A good variety, but not as round or quite as early as the Yellow Globe Danvers. Very productive. Oz. 25c; lb. \$2.00.

### Southport Yellow Globe

A large perfectly shaped Globe onion and an excellent onion for keeping throughout the winter. A very heavy cropper, handsome in appearance and good lark yellow color. Oz. 25c; lb. \$2.75.

### Yellow Globe Danvers

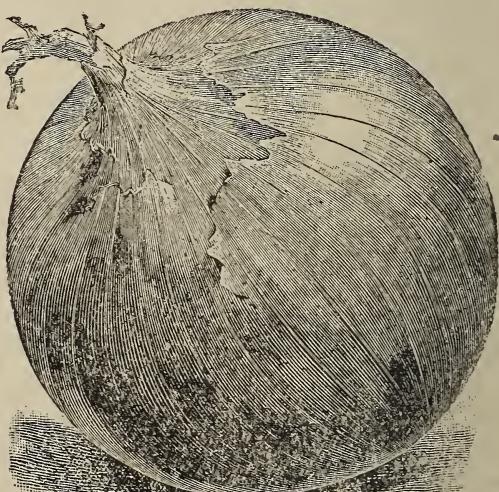
This fine onion is of large size. An early and abundant cropper. Bulbs very thick, flat or slightly convex bottoms, full oval top with small neck and rich brownish yellow skin. Oz. 25c; lb. \$2.50.

### Michigan Yellow Globe

The bulbs are large and uniformly spherical with very small necks and the largest diameter below the center of the bulbs, of a rich orange color. Oz. 25c; lb. \$2.50.

**Ohio Yellow Globe** An early Globe onion, small neck and very uniform in size and color. Very popular in the marsh onion sections of Ohio and Indiana. We have an excellent stock of this standard variety. Oz. 25c; lb. \$2.50.

**Southport Red Globe** This is a fine keeper. Large size and considered one of the best red onions. Flesh is fine grained, very mild and tender. Oz. 25c; lb. \$2.50.



Yellow Globe Danvers Onion

**White Portugal** American Silver Skin. This is the best sort to sow—for onion sets or for pickling. When sown thickly for either it makes a small, round, hard bulb. Oz. 35c; lb. \$3.50.

**Ailsa Craig** A handsome globular variety, growing to an enormous size, with pale yellow skin, flesh white, a good keeper and valuable for exhibition purposes. Oz. 35c;  $\frac{1}{4}$  lb. \$1.00.

**Large Red Wethersfield** We have a very fine and select strain of this sort. Grained and very firm. Yields an enormous amount per acre, and is one of the best winter keeping onions. Oz. 30c; lb. \$2.50.

**Extra Early Flat Red** This variety matures from ten days to two weeks earlier than the Red Wethersfield. The color is a deep rich red, fine grain and close. Oz. 30c; lb. \$2.50.

Petersville (Gr.)

## PARSLEY

Prezzemolo (It.)



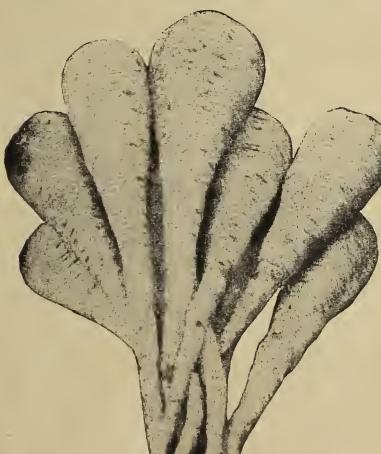
Double Curled Parsley

Pastinake (Gr.)

## PARSNIPS

Pastinaca (It.)

**CULTURE.**—Sow in early spring, in rows two to three feet apart, thin to four or six inches in the row. One ounce of seed will cover 200 feet of drill, four to five pounds per acre. In drills two and one-half feet apart. Cover the seed one-half inch. Use rotted manure and fertilizer. Parsnips may be left in the ground all winter.



**Marrow Parsnip** This is a fine new Parsnip of English origin which we confidently offer to our trade. It is very fine grained and exceedingly sweet, while the peculiar parsnip flavor is fully reserved. The roots are unusually smooth and attractive in appearance. The best of all parsnips for private or market garden use. Oz. 25c,

**Kelway's Don** A half long variety of our introduction, selected for handsome form, size, whiteness of skin and flesh, and firmness and solidity of texture. Recommended for exhibition (see illustration). Oz. 25c,

### Gurnsey (Improved Half-Long)

Greatly improved strain. The roots do not grow as long as the Hollow Crown, but are of greater diameter and very easily gathered. A very heavy cropper. Roots very smooth. Flesh fine grained and of excellent quality. Oz. 15c; lb. \$1.00.

**Improved Hollow Crown** This really greatest old-time favorite among the parsnips and has a host of friends which it will never lose. It is very smooth, white with a very thick shoulder and tapering down to a graceful point. One of the best known, none better. Oz. 15c; lb. \$1.00.

## PEAS

Piselli (It.)

**Erbsen (Gr.)** For early peas the soil should be light and warm, but for general crop a moderately heavy soil is better. Fresh manure and very rich or wet mucky soil should be avoided, as they cause a rank growth of vine at the cost of the quality of the peas. Such soil is often the cause of early sorts maturing unevenly. Sow as early as possible a few of some early variety on warm, quick soil, prepared the fall before, planting in double rows six to eight inches apart and two and one-half to four feet between the double rows. The general crop can be delayed until later, but we have met with better success from sowing all the varieties comparatively early, depending for succession upon selecting sorts that follow each other in maturity. The peas will give quicker returns if covered only one inch deep and where earliness is most important they may be treated in that way. Larger pods and more of them will be produced if the seed be planted in trenches three to six inches deep and covered with only one or two inches of soil.

**Earliest of All, or Alaska** By careful selection and growing we have developed a stock of this smooth blue pea of unequalled evenness in growth of vine and early maturity of pods which are filled with medium sized, bright green peas of good flavor. Vines of medium height, about two and one-half to three feet and of distinctive light color. Pods of good size, about two and one-half to two and three-fourths inches long. Seed small, smooth, and bluish green in color. Matures all the crop at once and is an invaluable variety for market gardeners and canners. Pt. 20c; qt. 40c.

**Thomas Laxton** A very early wrinkled variety of great merit. Vine vigorous, of medium height, about three feet, similar to that of Gradus, but darker in color, harder and more productive. Pods large, often four inches long, with square ends, similar to but larger, longer and darker than those of Champion of England and as uniformly well filled. The green peas are very large, of fine deep color and unsurpassed in quality. We are certain that the earliness and productiveness of this pea need only to be known to make it one of the most popular sorts for the market and home garden, as in appearance and quality is it one of the very best varieties yet produced. Pt. 30c; qt. 60c. bu.

**Gradus** A very early, wrinkled pea. Vine similar in appearance to Telephone, but of medium height, only about three to three and one-half feet. The pods are very large, about four and one-fourth inches long, very nearly as large as those of Telephone, uniformly well shaped, pointed, handsome and more attractive than those of the first earlies. Peas very large, of splendid quality and beautiful light green color which they retain after cooking. Practically the same as Prosperity. Pt. 30c; qt. 60c.

**American Wonder** Vigorous, productive vines, with a luxuriant foliage, and producing the leaves on one side of the stock, growing from 9 to 12 inches high. On account of its dwarf habit of growth it is very desirable for private garden use. Pods are light colored, straight, round, about two and one-half inches long and blunt at the end. Fit for picking fifty-five days from planting. Seed is wrinkled, green, medium in size and square at the end. Pt. 30c; qt. 60c.

**Nott's Excelsior** Resembling Gems in habit, but more dwarf and uniform in growth, height 12 to 17 inches, with rather light foliage. Pods are light in color, round, about two and one-half inches long, blunt at the ends. Fit for picking fifty-six days from planting. Seed green, wrinkled, medium in size and square at the ends. Pt. 40c, qt. 60c.

**Little Marvel** We are sure that as soon as American gardeners, whether for pleasure or profit, become acquainted with Little Marvel they will drop both Little Gem and Nott's Excelsior, popular as these two varieties are today. The vines, of dwarf even growth, average fifteen inches in height and are heavily set with fine pods, frequently borne in pairs. The pods average two and one-half inches in length, are square at the bottom and well filled with six to seven quite large, deep green peas. The peas are ready for the table fully as early as American Wonder or Nott's Excelsior, while the pods are larger and the vines produce a much heavier crop. All who desire a fine early crop of the choicest quality of wrinkled peas will be delighted with Little Marvel. Pt. 40c; qt. 75c.

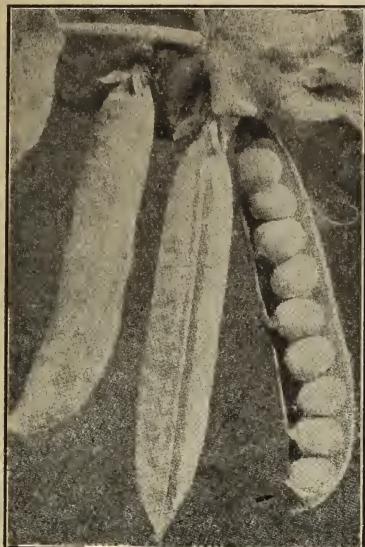
**Premium Gem** Desirable early green wrinkled dwarf variety similar to but better than McLean's Little Gem. The vine is very productive and grows to a height of from fifteen to eighteen inches. The pods are of medium size and crowded with six to eight very large peas of fine quality. The seed is green, large, wrinkled, often flattened. Pt. 40c; qt. 75c.

**Boston Unrivaled** Best large-podded medium or late Pea grown. An improved strain of the Telephone type. Vines grow 4 to 5 feet high and are covered with fine large pods about 5 inches long,  $\frac{3}{4}$  inch broad, and containing 7 to 8 extra large peas of the finest flavor. Pt. 30c; qt. 60c.

**Potlatch** Strong, vigorous vines of even growth, 20 to 24 inches in height, with luxuriant dark foliage, bearing pods medium green in color three and one-half to four inches in length. Broad and pointed at the ends. No variety known will produce more pods, and no pods could possibly shell out better. The Potlatch is a variety from which anyone may expect great things. Fit for table use 61 days from planting. Seed green, wrinkled, large in size. We consider ourselves very fortunate in having secured and introduced this pea. Pt. 30c; qt. 60c.

**McLean's Advancer** A green, wrinkled variety of medium height, about two and one-half to three feet, with long, broad pods, about two and three-fourths to three inches long, which are abundantly produced and well filled to the ends. This pea is used very extensively by market gardeners because of its productiveness, the fine appearance of its pods, and is popular with consumers on account of its quality. It is also largely used by canners. By careful selection we have developed a strain showing market improvements in vigor of plant, size of pod and productiveness. Pt. 30c; qt. 60c.

**To Prevent Damage from Pea Louse** Sow a strip of turnip seed about five feet wide around the field of peas, which will attract the pea louse, and will feed upon the turnip instead of the peas; thus preventing the destruction of the crop. Sow early turnips with Early Peas and late turnips with Late Peas. This has been given us by an expert grower, who claims it to be a sure remedy.



Telephone Peas

**Duke of Albany** A most valuable variety of the Telephone type; remarkably hardy in growth, producing dark green pods of large size, well filled with extra large sweet peas. The vines grow three feet in height and are very productive. Pt. 30c; qt. 60c.

**Telephone** This has become the leading pea with market gardeners whose trade appreciates fine appearance and high quality. Vines tall and vigorous, growing about four feet high, with large, coarse, light colored leaves and producing an abundance of pointed pods of largest size, often four and one-half to five inches long, attractive bright green, filled with very large peas which are tender, sweet and of excellent flavor. It comes into use soon after the Premium Gem and is one of the best sorts for either home or market. Pt. 30c; qt. 60c.

**Alderman** This comparatively new pea is in many respects the very best early main crop variety of the valuable Telephone type. The vines are tall growing, about four and one-half to five feet high, dark green, vigorous and exceedingly productive. Pods of largest size, often five to five and one-half inches long, dark green, similar to but a little larger and a shade darker in color than Duke of Albany and about the same in season. The peas are of largest size and unsurpassed in quality. Market gardeners are demanding the large podded, dark colored sorts which retain their fine appearance even after shipping a long distance. The Alderman answers these requirements and furthermore is the most productive variety of this class. We recommend it unreservedly. Pt. 30c; qt. 60c.

## Later Varieties

### Improved Stratagem

Most stocks of the large podded, semi-dwarf, English varieties of peas have been so wanting in uniformity and evenness of type as to disgust American planters, but by constant effort we have developed a stock which comes true and we do not hesitate to pronounce it one of the best of the large podded sorts. The pods are of largest size, long and pointed, dark green, and uniformly filled with very large, dark green peas of the finest quality. Pt. 30c; qt. 60c.

**Marvelous** A new, dwarf, wrinkled sort, of sturdy growth; early and very prolific. The pods are produced in pairs containing 8 to 10 large Peas of delicious flavor; height, 18 in. Pt. 40c; qt. 75c.

### Champion of England

A very productive variety, universally admitted to be one of the richest and best flavored of the late peas. The vines are four to five feet high. The seed is light green and much shriveled. Very inferior and mixed stocks of this sort are frequently offered, but when the seed is as well grown and selected as that we offer we consider the variety equal in quality to any in cultivation and one of the best of its season, either for the home garden or market gardener. Pt. 30c; qt. 60c.

### Melting Sugar

(Edible pods) There is a class of peas not generally known in this country but much used abroad in which the sweet, brittle and succulent pods have none of the tough, inner lining found in the ordinary varieties of garden peas. They are used in the same way as snap or string beans. Pt. 30c; qt. 60c.

### Large White Marrowfat

The vines of this variety are about five feet high and of strong growth. The pods are large, cylindrical, rough, light colored, and well filled; seed large, smooth, round and light yellow. The variety is excellent for summer use but is inferior in quality to most of the newer sorts, although undoubtedly one of the most productive of the garden varieties. Qt. 50c.

### Large Blackeye Marrowfat

An excellent variety, growing about five feet high. It is a very prolific bearer of large pods. Seed large, smooth, round, light yellow with black eye. One of the very best of the Marrowfat sorts. Qt. 50c.

### Pfeffer (Gr.)

Peppers are most largely used for seasoning meat and vegetable dishes; also for making chow chow and chili sauce. The culture is the same as for egg plant and the plants need quite as much heat to perfect them. Sow seed early in hotbed, or about middle of spring in open seed bed, the soil being light and warm. When three inches high transplant in rows about two and one-half feet apart and two feet apart in the row. Cultivate and keep free from weeds. Guano, hen dung or any other bird manure hoed into the surface soil when the plants are about six inches high will undoubtedly increase the product.

**Red Cherry** A second early sort. Plant tall, bearing a profusion of round, bright red in fruit. Oz. 50c;  $\frac{1}{4}$  lb. \$1.75; lb. \$6.50.

### Giant Crimson

The earliest maturing of the extremely large, red sweet peppers and surpassed by none in evenness of size and shape. The plant is vigorous and upright, growing two and one-half to three feet high, larger than that of Chinese Giant and more productive. The fruits are of the largest size, ripen earlier than any of the other very large sorts and average heavier, as the flesh is exceptionally thick. Color deep green when fruit is young, deep crimson when matured; flavor very mild. Oz. 60c;  $\frac{1}{4}$  lb. \$2.50; lb. \$8.00.

## PEPPER

### Peperone (It.)

**Red Chili** A late variety. Pods bright, rich red, about two inches long, one-third to one-half inch in diameter at the base, tapering to a sharp point and exceedingly pungent when ripe. Oz. 50c; lb. \$7.00.

**Long Red Cayenne** A well known medium early variety having a slender, twisted and pointed pod about four inches long. Color deep green when fruit is young, bright red when ripe. Extremely strong and pungent flesh. Oz. 60c; 1/4 lb. \$2.00; lb. \$7.00.

**Large Bell, or Bull Nose** Our stock of this well known variety, sometimes called Sweet Mountain, is very superior. Plant vigorous, about two feet high, compact and very productive, ripening its crop uniformly and early. The fruits are large, with thick, mild flesh of excellent quality for use in salads and mangoes or stuffed peppers. The color is deep green when fruit is young, bright crimson when ripe. Oz. 50c; 1/4 lb. \$2.50; lb. \$8.00.

**Ruby King** An improved American variety, very large and attractive. The plant is about two and one-half feet high, vigorous, compact and productive. The fruits are often four to four and one-half inches long and of deep green color when young, bright red when ripe. The flesh is thick and mild flavored. One of the best varieties for mangoes or stuffed peppers. Oz. 60c; 1/4 lb. \$2.00; lb. \$7.00.

**Chinese Giant** Plant dwarf, fruit of mammoth size, very broad, yet rather short. It is very late and a rather shy yielder. Popular account of its large size and mild flavor. Our stock is pure and is as good as can be obtained. Oz. 55c; 1/4 lb. \$1.85; lb. \$7.00.

**Large Sweet Spanish** A late maturing and attractive, red, sweet pepper. Plant vigorous and productive. Fruits very large and long, frequently seven inches in length and about two inches in diameter, with very thick, mild flesh of excellent quality. Color deep green when fruit is young, rich red when ripe. Oz. 50c; 1/4 lb. \$1.75; lb. \$6.75.



Bell or Bull Nose

**Kartoffel (Gr.)** **Early Ohio** "True to Name" Red River Valley Early Ohio Seed Potatoes, grown in the Red River Valley, the noted seed potato growing section of the United States. Buy your seed stock now, which will be good for the years to come, as they will not "run out," but will hold true to type for many years.

**Irish Cobbler** Is the best early white potato grown. The tubers are smooth, round, plump and handsome. The flesh is white and of splendid quality. Per bushel, \$4.50.

**True Early Rose** The Early Rose is the old standard early potato; rosy blush skin; white flesh; early, productive, and of excellent flavor; a fine keeper.

**Late Russet** The famous "Russet" recently introduced from Michigan yielded 30 bushels to the acre on a Tully farm in 1914, many specimens weighing 3 to 20 ounces. Most vigorous grower and an immense yielder. It is bug proof and blight proof. Has a russet skin; flesh white as snow. A fine cooker. The most valuable late potato on the market. For further particulars, see page 15.

**Carman No. 3** Another large, round, white, main crop potato; tubers are very large, eyes are shallow and few in number, and it is an immense yielder of large potatoes.

## POTATOES

Patae (It.)

**Melonen-Kuerbiss (Gr.)** Connecticut Field, per lb. .... \$1.00 Cashaw Pumpkin, fine table, per lb. .... \$1.75  
Cheese Pumpkin, fine for table, per lb. 1.50 Mammoth Prize Pie, per lb. .... 2.00

## PUMPKIN SEEDS

Zucca (It.)

**Radies (Gr.)** Being a root crop, good and mellow to insure quick brittle radishes require light, well-worked soil, made very rich. If permitted to grow slowly, they become tough and pithy. They are easy to grow and frequent plantings will insure a constant supply for the table. Summer varieties can be sown all spring and well into summer. Winter varieties, however, require some time to mature, and the seed should be planted in August and September for good radishes in November and December.

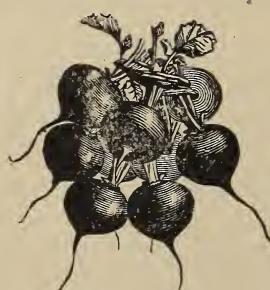
## RADISH

Ravanello (It.)

**Excelsior Very Early** For a forcing radish this stands at the head of the list, being the earliest, best and brightest scarlet turnip shaped sort on the market. Oz. 20c; lb. \$1.50.

**Vick's Scarlet Globe** This grand radish has established a reputation as a forcing sort. Its peculiarity is that it will bear the heat requisite for forcing without becoming pithy in character or suffering injury to its flavor. Its attractive shape is shown in the illustration. Its color is a rich scarlet. It has a small top and is a high bred radish. Oz. 15c; lb. \$1.25.

**Crimson Giant Forcing** A new variety which will be a popular market and home garden variety, since it matures very early and remains firm and crisp much longer than other short varieties. Color, rose carmine with white tip. It is top-shaped. Oz. 15c; lb. \$1.25.

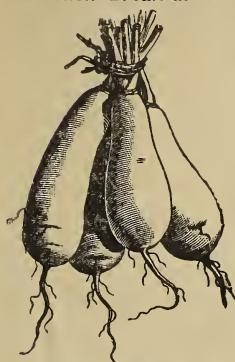


Radish Small Top—New Deep Scarlet Turnip

PRICES SUBJECT TO CHANGE WITHOUT NOTICE



French Breakfast



Chinese Rose Winter

**Brightest Long Scarlet** A very showy, long variety. Thick at the shoulder and tapering. Bright rose scarlet with distinct white tip. Oz. 15c; lb. \$1.50.

**French Breakfast** A popular variety for market or forcing. It is about two inches long and decidedly stump-rooted. Color, bright rose with bottom of root and the tail pure white. Oz. 15c; lb. \$1.25.

**Chinese White Winter, or Celestial** (or Cal. Mammoth White Winter.) The well-known and popular winter variety. Clear white, about four inches long and half stump-rooted. Keeps firm and crisp until it runs to seed. Is a good cooking variety, and when cooked the flavor resembles turnip. Oz. 15c; lb. \$1.25.

**Chinese Rose Winter** A bright scarlet winter variety. About four inches long and stump-rooted. Matures two or three weeks earlier than the Chinese White Winter and like it is firm and crisp and does not grow pithy until it runs to seed. Oz. 15c; lb. \$1.25.

**White Strasburg** A white radish, of large size, good quality, and ability to resist severe heat. I always recommend White Strasburg for summer planting. It will grow solid, with good flavor, when others fail. Popular with market gardeners. Oz. 15c; lb. \$1.25.

**Giant Stuttgart** This mammoth white radish is the largest of the turnip shaped sorts. It has solid, crisp, pungent flesh, and is highly prized by people demanding a radish of high flavor. Both skin and flesh are pure white. It should be given plenty of space in the row. Oz. 15c; lb. \$1.25.

**Icicle** A handsome white variety, about 5 inches long, with sloping top and pointed root. Quick growing, brittle, and mild in flavor. Oz. 15c; lb. \$1.25.

**Early Round Dark Red, or Prussian Globe** A bright scarlet turnip-shaped variety. Early. Quick growing, and a handsome radish. Oz. 10c; lb. \$1.25.

**Round Black Spanish** A winter variety, with black skin and white flesh. It is top-shaped or almost globular. Oz. 15c; lb. \$1.25.

**Black Spanish, Half Long** A shorter, olive-shaped variety with half-stump root and sloping top. Oz. 20c; lb. \$1.25.

## RHUBARB

Rabarbara (It.)

**CULTURE.**—Plant roots four feet apart each way, in very rich, well manured soil. Cultivate well and top-dress liberally. Plants easily grown from seed. Sow in drills about 18 inches apart, and thin the plants to 12 inches in the drills. Use one ounce to 75 feet of drill. **Victoria** A good market sort, with beautiful red stalks. Pkt. 5c, Oz. 15c, 1/4 lb. 40c, lb. \$1.50. Roots, 15c each, 4 for 50c, postpaid. By express or freight, not prepaid, \$1.25 per dozen.

## SAGE

A hardy, perennial shrub, with whitish-green, oval, and very much wrinkled leaves, which have a pleasant smell and which are used for seasoning. It is easily grown and the seed can be sown almost any time. Its fragrant, purplish flowers are especially attractive to bees, and the finest white honey has its source in sage blossoms. Oz. 40c.

## SALSIFY, or VEGETABLE OYSTER

Sassefroca (It.)

**CULTURE.**—Sow early and deeper than parsnip, otherwise culture is the same and like that, roots, if desired, may be left in the ground through the winter, but should be dug very early in the spring, as they deteriorate rapidly after growth commences.

**Mammoth Sandwich Island** Larger, of stronger growth, and less liable to grow prongy than the old Long White. Pkt. 5c, oz. 25c, 1/4 lb. 65c; lb. \$2.25.

## SPINACH

Spinace (It.)

**Spinat (Gr.)** An easily grown plant, the seed of which may be planted in the fall to secure good spinach early in the spring or even throughout the winter. The better and richer the soil, the larger and more tender the leaves will be. As a field crop for the market garden, use 1 pound of seed per acre. For the home garden use one-half ounce for 100 feet of row.

**Bloomsdale Savoy** The variety most generally used in the East, and especially thick, very much savoyed and rich deep green. One of the earliest varieties. Seed round. Oz. 5c, lb. 50c.



LONG SEASON SPINACH.

**Long Standing** A deep green variety with rather elongated smooth leaves. Seed, round. Stands a long time without running to seed. Oz. 10c, lb. 50c.

**Victoria** A long-standing variety with round, slightly savoyed leaves. Deep green and hardy. Forms good, edible leaves early and continues to produce leaves for a long period. Oz. 10c, lb. 50c.

**Norfolk Savoy** Forms a dense rosette of thick, tender and succulent crumpled or blistered leaves of dark green color. With this variety spinach may be continuously grown in any home garden. The best variety to be sown in the spring and at intervals for a successional summer supply. It is invaluable to both home and market gardeners. Oz. 10c, lb. 50c.

**Prickly** The variety commonly used for market in California. Is very hardy and easily grown; bears large, smooth leaves, which are shaped like an arrow point. Color, bright green. Seed irregular with three or four sharp points. Oz. 10c, lb. \$1.00.

**New Zealand** A plant with thick, fleshy texture and soft crystalline leaves. Is not like the ordinary spinach in appearance, but it is used in the same way. Oz. 30c; lb. \$2.50.

**Round, Thick Leaved** A large-leaved, bright green variety. Leaves rather smooth and rounded at the top. A good variety for late spring and summer. Seed round. Oz. 10c; lb. 50c.

## SQUASH

### Zucca (It.)

**Kuerbiss (Gr.)** The summer varieties come into use early in the summer, but being sensitive to frost the seed cannot be sown until late in April. The seed should be planted in hills four feet apart, using four ounces to 100 hills. The winter varieties are also unable to resist frost, and should be planted at the same time. The fruit does not mature until late in the fall, and, having a very firm, hard shell, keeps well, and with a little care squashes can be had all winter and until late in the spring. In gathering winter squashes, it is important to protect the stems, since if broken off the fruit will not keep so well. Plant in hills six to eight feet apart, using two or three seeds to the hill. Use eight ounces to 100 hills, or two pounds to an acre. Moderately rich soil will grow good squashes.

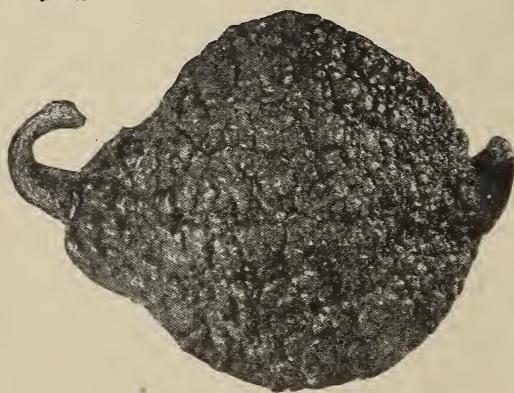
**Mammoth Summer Crookneck** A large golden-yellow variety, thickly warted. Plants are bush and very prolific. This is an improved strain of the old variety and considerably larger. Oz. 20c, lb. \$1.75.

**Burpee's Fordhook Squash** A most desirable running variety for both summer and winter use. The vines are of strong, vigorous growth and wonderfully productive. Fruits oblong in form, eight to ten inches in length, slightly ridged, smooth thin yellowish skin; flesh very thick and of a light straw yellow. If gathered young for cooking, no other squash approaches it in flavor, while if allowed to ripen on the vine they can be stored and will keep in excellent condition until late the following June. Either for baking like sweet potatoes or making pies during the winter the quality is unsurpassed. Oz. 15c, lb. \$1.50.

**Burpee's Bush Fordhook Squash** Being of "bush growth," the plants can be grown much more closely together. The fruits are rather shorter and thicker than those of the running type; they are also thicker fleshed and have a smaller seed cavity, but unfortunately do not come as true to type. Our Fordhook squash is about a week later than the Early White Bush; it is much sweeter and better flavored. Oz. 15c, lb. \$1.50.

**The Faxon** A very desirable variety for the home garden, very productive, of medium size (five or six pounds), fine-grained, dry, sweet, a good keeper, uniform in shape, but varied in color. This variation in color is a distinct feature of the squash. Oz. 15c, lb. \$1.50.

**Mammoth White Bush Scallop** An improvement on the old variety, larger, pure white and superior in quality. Oz. 15c, lb. \$1.50.



Hubbard Squash

It grows to large size, is a fine keeper and shipper, its cooking qualities unsurpassed. Oz. 20c; lb. \$1.75.

**Mammoth Chili** The largest variety, attaining under special cultivation enormous size, its cooking qualities unsurpassed. Oz. 20c, lb. \$1.50.

## SWISS CHARD

**Giant Perpetual ("Cut-and-Come Again") Spinach Swiss Chard** This, though a variety of Chard, is to all practical purposes a giant spinach, the huge curled leaves being tender and cooking readily, with a decided spinach flavor. Its great merit is that it will supply the greens from spring until late in the fall. The large midribs can be cooked and served like asparagus. If wanted for greens cut when 6 inches high just above ground and it will grow out again. Oz. 15c; lb. \$1.50.

**SQUASH BUGS**—Spray Pyrox with an under-leaf upturned nozzle—sure death.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

## SWEET HERBS

CULTURE.—Sow in early spring, at the time when the trees begin to leaf, in ordinarily good and well drained garden soil, in rows 12 to 24 inches apart. Cover seed lightly. Thin or transplant to stand 6 to 12 inches apart in the rows. Cultivate frequently and keep free from weeds.

	Packet	Packet	
Anise, seeds aromatic.....	10c	Marjoram, leaves used in seasoning.....	5c
Balm, has medicinal qualities.....	5c	Mint (peppermint).....	5c
Basil, sweet.....	5c	Rosemary, aromatic.....	10c
Borage, leaves used for salad.....	5c	Rue, medicinal qualities.....	10c
Caraway, seeds aromatic.....	5c	Saffron, medicinal qualities, also dyeing.....	5c
Chives, Edible.....	10c	Sorrel .....	5c
Coriander, seeds aromatic.....	10c	Sage, culinary herb.....	15c
Dill, seeds aromatic and medicinal.....	10c	Savory, Summer, culinary herb.....	10c
Fennel Sweet, seeds aromatic.....	5c	Tarragon or Estragous (roots), each.....	25c
Horehound .....	5c	Thyme, culinary herb.....	5c
Lavender, leaves aromatic.....	10c	Wormwood, medicinal qualities.....	5c

## TOBACCO SEED

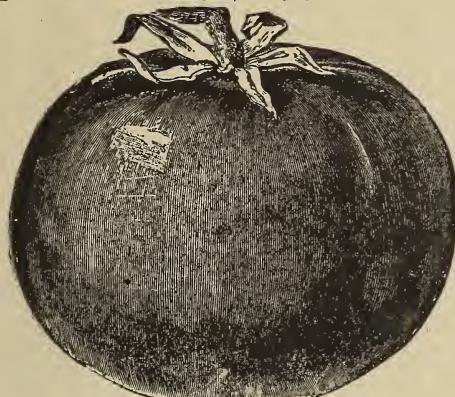
Havana Tobacco Seed, per oz. \$1.00, per pkt. 10c.

### Liebesapfel (Gr.)

As tomatoes are very sensitive to frost, they cannot be set in the open field until about May 1st. The seed must be sown in well protected hotbeds, sowing same about March 1st. A hardy and stocky plant is had by transplanting the small plants in the bed a few weeks before transplanting to the field. Or when about four inches high, the top may be pinched off and the plant grows stockier.

Sow the seed broadcast, using one ounce to about three square feet of area, which will yield plants enough to set an acre. In the field set tall varieties six feet apart and dwarf varieties three feet apart. A slight trellis is advisable in the garden. A moderate amount of water should be applied at the roots at regular intervals.

**Bonney's Best Early** An extra early variety having great favor with the market gardeners. Vines vigorous and productive, fruit solid without hard core. Color bright scarlet. Fine, early, handsome, especially profitable for market gardeners' use. Oz. 35c; lb. \$3.75.



Chalk's Early Jewel

scarlet color, and of fine quality. Very valuable for early market use. Oz. 40c; lb. \$3.75.

**Beauty** A rather early, tall variety; very prolific, with good-sized, smooth fruit of a purplish-carmine color. Oz. 35c; lb. \$3.75.

**Livingston's Dwarf Stone** Another splendid new variety from Livingston. This is what he says of it: "The same sort of tomato as Dwarf Champion, but the vine is of stronger growth, and the fruit is of double the size. It is equally early, is equally prolific. The shape of the fruit is perfect. It is very solid, ripens very evenly and is of excellent quality." Oz. 35c; lb. \$3.75.

**Dwarf Champion** A dwarf variety, sometimes called the tree tomato on account of its upright growth and its ability to stand alone without trellising. Fruit medium-sized, smooth, uniform, and of a purplish carmine color. Oz. 35c; lb. \$3.75.

**Matchless** A tall-growing, prolific variety with large fruit, which is rather flattened, smooth and uniform. Color, bright scarlet. For canning and general main crop market, there is no better tomato grown. Extra selected strain. Oz. 40c; lb. \$4.00.

**Ponderosa** An extremely large, irregular-fruited variety. Vine tall, and fruit very solid and purplish-carmine in color. Rather coarse and of fair quality only. Oz. 75c, lb. \$7.00.

**Red Cherry** The fruit is small and globe-shaped, about one to two inches in diameter. It is very valuable for preserving. Oz. 40c, lb. \$4.00.

**Red Pear Shaped** As the name implies, the fruit is shaped like a pear—small at the stem and enlarged at the top. It is small, being about two or three inches long. It is bright scarlet. Oz. 40c, lb. \$4.00.

**Golden Queen** (Bright yellow.) Best large yellow tomato. Much like Paragon, except in color. Always smooth and ripens early. Quality excellent in all respects, either for slicing or preserving. Queen of all the yellows. Oz. 40c, lb. \$4.00.

**Pear-Shaped Yellow** (Bright yellow.) A pretty tomato, similar to Pear-Shaped Red, except in color. Oz. 40c, lb. \$4.00.

## TOMATO

### Pomodori (It.)

June Pink habit of growth is similar to the Earliana. The plant is compact, branching freely, with fruit hanging in clusters of six to ten fruits, both in the crown and at the forks of the branches. It ripens fully as early as the Sparks Earliana and quite ten days to two weeks ahead of Chalk's Early Jewel. Fruit of medium size, uniform, smooth, and attractively shaped, without cracks or any green core. Continues to bear and ripen fruit until frost. Oz. 35c; lb. \$3.75.

**Chalk's Early Jewel** A wonderful new variety, in that it is early and bears continuously throughout the season. The fruit is large, smooth, uniform, and well ripened clear to the stem, and the flavor and quality are especially fine. Color, bright scarlet. Oz. 40c; lb. \$4.00.

**Earliana (Sparks)** The earliest tall ripe fruit much earlier than any other variety. The fruit is large, smooth, of a bright color. The fruit is large, smooth, of a bright

Steckrube (Gr.)

## TURNIPS

Pastinaca (It.)

While turnips are a favorite fall and winter vegetable, they may also be had in the spring by proper sowings. They are of easy culture, but need well-worked, rich soil to insure a quick, uninterrupted growth, when they will be tender and free from woodiness.

For fall and winter use sow the seed in August, in rows 10 to 18 inches apart, using one ounce to 250 feet of row, thinning the plants when very young to three or four inches apart. For spring use sow in January. For field culture sow in rows about two feet apart, using one to three pounds of seed per acre.

**Early Snowball** A medium globe-shaped variety of pure white. Very solid and of the best quality. Oz. 15c; lb. \$1.50.

**Early White Flat Dutch (Strap Leaf)** A medium-sized, flat variety; clean white, early, and of fine flavor. A fine table variety. Oz. 15c, lb., \$1.00.

**Early White Milan** Roots flat, smooth and symmetrical; pure white. Top very small, upright and compact, permitting close planting. The earliest and much the best of any extra-early white variety. Oz. 15c; lb., \$1.50.

**Early Purple-Top Milan** Differs from the preceding in that the roots are not quite so thick and are purple on top. Oz. 15c. lb. \$1.50.

**Early Purple-Top Flat** A well-known variety and very extensively grown. Roots smooth, white, with the upper portion purplish red. Oz. 15c; lb. \$1.50.

**Early Purple-Top White Globe** One of the handsomest varieties, the upper portion of the root being a purplish red, the lower pure white. A rapid grower, attaining a marketable size sooner than other large globular varieties. Of the best quality and an excellent keeper. Owing to its strong growth should be more severely thinned than other early varieties. We offer New England grown seed of a selected strain, which repeated trials have shown to be much superior to those generally offered. Oz. 15c; lb. \$1.50.

**Cow Horn** A long white turnip. Grows to a large size, standing half out of the ground. It is fine flavored and desirable. Cow Horn turnip sown in connection with Rape is one of the newly recommended things for green manuring purposes. Oz. 10c; lb. 75c.

### Ruta-bagas or Swedish Turnips

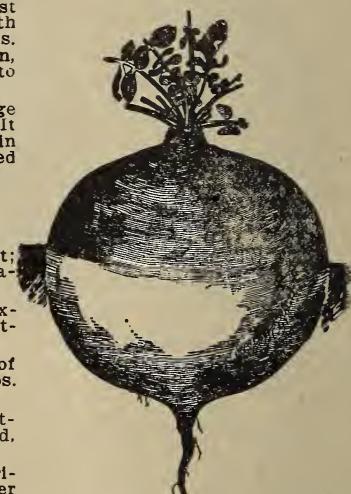
**Laing's Improved Swede** One of the earliest; handsome round variety; fine for the table. Oz. 10c; lb. 90c.

**Sweet German, or Russian** White, sweet, excellent; a first-rate keeper. Oz. 10c; lb. 90c.

**Carter's Imperial Swede** This is the best of the Swede turnips. Oz. 10c; lb., 90c.

**American Purple-Top** Very hardy and productive; flesh yellow, solid, sweet; good for stock or table use. Oz. 10c; lb. 90c.

**Long Island Improved** Bred from the "American Purple Top," over which it is a great improvement, being nearly double the size; an immense yielder and good keeper; flesh rich yellow, of fine quality. Oz. 10c; lb., 90c.



Ruta Baga American Purple Top Turnip

**Improved American Rutabaga** Best and heaviest cropper of all rutabagas. Of fine form, with rich purple colored top and light yellow flesh, of most pleasing appearance, flesh is tender and sweet—free from hard, stringy nature. Has comparatively small tops, fine feeding roots, and is the surest and heaviest cropper. We have sold this special strain of American Rutabaga for nearly twenty-seven years and we have never had a variety of vegetable that has given such general satisfaction in all sections and in all kinds of seasons. Packet 5c; oz. 15c; 1/4 lb. 30c; lb. \$1.00.

# SELECT FLOWER SEEDS.

**Abobra** (Gourds) Beautiful variety of climbing gourd with elegant foliage. 5c pkt.

**Abronia** (Sand Verbena) Trailing, annual, sweet-scented clusters like verbena, lasting in bloom a long time; for rock-work or hanging-baskets. Height 12 inches. 5c pkt.

**Abutilon** (Chinese bell flower or flowering maple) Free flowering, perennial shrub; fine for indoors. For outdoor sowing before April. Will bloom first season. 10c pkt.

**Acacia** Half hardy shrub having ornamental foliage, beautiful shades of yellow, globular flowers. Soak seed in warm water before sowing. Height 6 to 10 ft. Mixed 10c pkt.

**Aconitum** (Monk's hood or Wolfsbane) Hardy, perennial, long spikes of odd shape blue and white flowers, adapted to shady corners or among shrubbery; 3 to 5 ft. 5c pkt.

**Acroclinium** Pretty, annual everlasting, 15 inches high, lovely white or rosy pink flowers fine for border. Sgl. or dbl. 5c pkt.

**Aclumia** Hardy white perennial, 2ft. high, pure white double flowers, bloom from spring until frost, fine for cemetery decoration. Flowers first season if sown early.

**Aclumia** (Mountain fringe or Allegheny Vine) A hardy biennial climber, will resow itself year after year, feathery foliage resembling Maiden-hair Fern, flowers tube-shaped, flesh colored completely covering the plant, fine for trellises, stumps, etc. 10c pkt.

**Adonis** (Pheasant's eye) *Flos Adonis*, Showy, hardy, annual, of easy culture, fine cut foliage blooms a long time; dark crimson flower with light center. Height 1 ft. 5c pkt.

**Ageratum** (Floss Flower) Fine bedding sort, literally a sheet of bloom from early summer until frost; not liable to be spoiled by rain, flowers not liable to fade; easily raised from seed. Sow in March or in hot-bed and transfer into open ground in June when weather is suitable valuable for winter flowering for conservatory. 5c pkt.

**Blue Perfection** Dark blue, largest flowering, fine bedder. 10c pkt.

**Cope's Pet** Azure blue, fine light blue sort for edging. 10c pkt.

**Dwarf Princess Pauline** Beautiful, compact, sky blue, white center, very exquisite. 10c pkt.

**Mexicanum** Lavender blue, 1 1-2 ft. 5c pkt.

**Imperial Dwarf White** Height 8 inches. 5c pkt.

**Agrostemma** (Rose of Heaven) Free blooming, hardy, perennial, blooming first season, height 1 to 2 ft. Mixed 5c pkt.

**Alyssum** (Madwort) Pretty little plants for beds, vases, baskets, edging, etc. Bloom profusely all summer, also useful for winter. Very sweet-scented.

**Little Gem** (or Carpet of Snow) 4 to 6 inches in height, each plant covering a circle of 15 to 30 inches. 5c pkt.

**Sweet Alyssum** Trailing flowers, white. 5c pkt.

**Tom Thumb** Compact, dwarf, fine for edging, white. 5c pkt. 30c oz.

**Saxatile Compactum** (Basket of Gold,) handsome yellow flowers, hardy perennial, blooming first season, fine for rock work, 1 ft. 5c pkt. 30c oz.

**Amaranthus** Brilliant foliaged annuals, 3 to 5 ft. Useful in borders or centers of large beds. Do not plant too closely.

**Brilliant** Foliage bright red, ends of branches carmine-rose, red and yellow. 10c pkt.

**Caudatus** (Love lies Bleeding) Blood red, drooping foliage, 3 ft. 5c pkt.

**Salicifolius** (Fountain Plant) Pyramidal, drooping habit. 5c pkt.

**Sunrise** Bronzy Crimson to brilliant scarlet. Fine for parks and large beds, 3ft. 10c pkt.

**Sulphurine** Leaves dark green, bright sulphur yellow. 10c pkt.

**Tricolor** (Joseph's Coat) Leaves red, yellow and green, 3 ft. 5c pkt. 30c oz.

**Ammobium** (Winged Everlasting) Grandiflorum, Pretty Border, annual ever-lasting, flower white with yellow disc. 5c pkt.

**Ampelopsis** (Boston or Japanese Ivy) Hardy, perennial climber, olive green leaves turning to scarlet in fall. Popular climber, fine for brick or stone walls. 10c pkt.

**Anemone** (Windflower) Hardy, perennial, large flowers, fine for bouquets. Mixed colors. 10c pkt.

**Antirrhinum** (Snap Dragon) White, yellow, scarlet, each 10c pkt. mixed colors. 10c pkt.

**Aquilegia** (Columbine) Charming, hardy, perennial, 1 to 3 ft., profuse bloomer, blue, white, rose, yellow, purple, striped, etc. Fine for borders. Sgl. mixed 5c pkt. Dbl. mixed 5c pkt.

**Arabis** (Rock Cress) Alpina very early, pure white, spring flower, appear as soon as snow disappears. Fine for rockeries or edging. 6 inches high. 10c pkt.

**Arctotis** Grandis, Beautiful new annual, 2 to 3 ft. high, large strong pure white flower embellished with yellow center, of the easiest culture. 10c pkt.

**Aristolochia Sipho** (Dutchman's Pipe) A quick growing climber with large heart shaped leaves. 5c pkt.

**Armeria** (Sea pink or cushion pink) Very pretty edging plant, bearing large tufts with rosy pink flowers, hardy perennial. 10c pkt.

**Asparagus** Plumbosus Nanus Graceful climber, finer than most delicate ferns. Will last for weeks after being cut, easily cultivated. 25c pkt.

**Sprengeri** One of the best for hanging baskets or general purposes, fronds 4 ft. long. 10c pkt.

**Verticillatus** Graceful, hardy perennial climber, scarlet berries. 10c pkt.

**Asperula Odorata** (Sweet Woodruff) Fragrant leaves and stems, grown in shaded places white flowers. 5c pkt.

**Asters** are now one of the most important summer and autumn flowers. Their immense popularity and world-wide demand shows their adaptability to any soil or climate, there being early, medium and late flowering sort which extends the blooming period from early July until frost. For the best results the ground should be very rich. Good results can be obtained from ordinary garden soil.

**Branching Varieties** 1 1-2 ft. high., very double, beautifully incurved. Crimson 10c, blue 10c, pink 10c, white 10c, rose 10c, mixed 10c.

**Asters (Continued).**

**Branching Peony Flowered** In vigor of growth, size of bloom and other qualities this type is unequalled. Height about 18 inches, free branching habit with long stems. Crimson 10c, blue 10c, white 10c, mixed 10c.

**Comet** Beautiful with long curled petals resembling the Japanese Chrysanthemum, height 18 inches. Carmine 10c, pink 10c, blue 10c, mixed 10c.

**Giant Comet** Similar to the above but of stronger growth, 18 to 24 inches high. Pure white 10c, white and rose 10c.

**Giant Branching Comet** Very strong growth, 18 inches high, branching habit, flowers of large size on long stems. 10c pkt.

**Queen of the Market** The earliest flowering Aster, blooms three weeks in advance of the general run, flowers good size on long stems. Fine for cutting. Crimson 10c, pink 10c, purple 10c, white 10c, mixed 10c.

**Victoria** Magnificent bedding or cutting variety, flowers large beautifully imbricated, 1 1/2 ft. high. Scarlet 10c, purple 10c, blue 10c, pink 10c, white 10c.

**China Mixed** Very fine, all colors 5c.

**Quilled Aster** Double or quilled petals, fine for bouquets. 2 ft. 5c pkt.

**Crown or Cocardeau** Very showy, double white center, mixed colors, 1 1/2 ft. high 10c pkt.

**Daybreak** Grand variety of symmetrical growth and habit. 18 inches high, globe shaped, double, delicate, pink tint. 15c pkt.

**Dwarf Chrysanthemum** Large flowering, dwarf, double, excellent for plants and pots. Mixed 10c pkt.

**Fire-Ball** Magnificent, double, brilliant, deep scarlet 10c.

**Japanese or Tassel** Entirely distinct, new pyramidal shape, 18 inches high, long stems, flowers five inches across, wavy twisted, needle shaped petals, very graceful. Mixed 10c pkt.

**Ostrich Feather** Magnificent, resembling the Comet, flowers of immense size of loosely formed petals, equaling the best Japanese Chrysanthemums. White or pink 15c each.

**Rose flowered** Large double, pyramidal, height 2 ft. Mixed colors 10c.

**Snow Ball** A beautiful distinct sort, short petals, pure white 10c.

**Washington** Splendid, very large, double, diameter 6 inches. White 15c.

**Perennial** Single, hardy. Does well in any garden soil. If sown early will flower in early season. 10c pkt.

**Bachelor's Buttons (See Globe Amaranth).**

**Balloon Vine (Love-in-a-Puff)** Rapid growing annual climber, white flowers, seed vessels look like miniature balloons. 5c pkt.

**Balsams (Lady Slipper)** Double, camellia flowered type, and old favorite, gorgeous brilliant colored, double flowers in great profusion, easily cultivated, 2 ft. high.

**Prince Bismarck** Salmon, pink, double, 10c pkt. Scarlet, yellow, violet and mixed each 5c. White 10c.

**Baptisia (False Indigo)** Beautiful, hardy, perennial, pea-shaped flowers on spikes 6 inches long, bright blue 2 1/2 ft. 5c pkt.

**Bartonia** Showy yellow flowers, very brilliant, cannot be transplanted. 5c pkt.

**Begonias** Fine bedding variety, equal to geraniums, sturdy growth, 1 ft. high, forming dense bushes completely covered with flowers from May until frost. Unequalled as pot-plants for winter flowering and will remain in bloom the entire year. Easily raised from seed. Doubtless mixed 25c, single mixed 15c.

**Tuberous Rooted Begonias** Plants of great value for summer decoration or window-gardening, bloom first season from seed if sown in February, transplanted as soon as weather permits, produce flowers the entire summer. Double mixed 25c, single mixed 25c.

**Ornamental Leaved Begonias** Beautiful, variegated foliage. Mixed 25c.

**Bellis** Double Daisy, very handsome spring-flowering plant. 5c pkt.

**Brachycome (or Swan River Daisy)** Dwarf, annual, profuse bloomer, pretty blue or white flowers. 5c pkt.

**Calceolaria (Lady's Slipper)** Ornamental plant with mass of beautiful pocket-like flowers, bloom early and very fine for decorating green-house or conservatory.

**Hybrida Grandiflora**, 20 inches high Mixed, 25c.

**Tigrina** Large tiger spotted brilliant colors 25c.

**Calendula (Pot Marigold)** Very showy, free-flowering until frost, hardy annual, grows in any good soil, fine for beds or mixed borders, fine for pot culture, height 1 ft.

**Meteor** Large double yellow, striped with orange 5c.

**Orange King** Large double orange red flowers 5c.

**Pure Gold** Fine Golden Yellow 5c.

Mixed per pkt. 5c.

**Pluvialis (Cape Marigold)** White daisy-like flowers, under side of petals lilac, 5c.

**Calliopsis (See Coreopsis)** Showy, free-flowering annual, blooms all summer, fine for cutting and massing. 5c pkt.

**Coronata** Large yellow, fine for bedding 5c.

**Golden Wave (Drummondii)** Large golden yellow with brown center, fine for borders. 5c.

**Tinctoria** Golden with garnet eye 5c.

**Nigra Speciosa** Crimson 5c.

**Campanula (Bellflower)** Favorite, hardy herbaceous with great profusion of bell flowers, thrives in light rich soil.

**Carpathica** Blue and white mixed, bloom the whole season, 6 inches 5c.

**Persicifolia Grandiflora** Fine hardy bell flowers 2 to 3 ft. blue or white. Mixed 10c.

**Canary-Bird Vine (Tropaeolum Canariense)** Handsome annual, rapid climber, charming little canary-colored blossoms bearing a fancied resemblance to a bird with wings half expanded 5c.

**Candytuft (Iberis)** A great favorite, fine for cutting, looks best in beds or masses. Sow in spring, will bloom until frost, very hardy, easily cultivated. Single plants look well and bloom profusely, 1 ft.

**Carmine** 5c.

**White** 5c.

**Candytuft (Continued)****Crimson** 5c.**Empress** A complete mass of pure white flowers 10c.**White Rocket** 5c.**Lavender** 5c.**Mixed colors** 5c.**Perennial mixed** 10c.**Canna** (Indian Shot) Without exception one of the handsomest bedding plants. Soak the seeds in warm water until they show evidence of swelling. When the second leaf is out pot singly and keep under glass until proper season for planting out. Mixed colors 10c.**Canterbury Bell** (Campanula Media) Sgl. mixed 5c. Dbl. mixed 5c.**Cup and Saucer** (Calycanthemum) Fine white, blue and rose, resembling cup and saucer. 5c.**Carnation** (See Dianthus) Great favorite for their delicious fragrance and richness of color indispensable for winter or summer culture. Dbl. mixed. 10c.**Marguerite Carnations** Very popular, as they begin flowering a few weeks from time of sowing, half-dwarf, strong, requiring no support, produce long, strong stems, abundant large double, beautifully fringed, highly-scented flowers.**Mixed colors** 10c.**Castor Oil Bean** (See Ricinus).**Celosia or Cristata** or Cockscomb Varieties Free-blooming annuals, plant in light soil not too rich, grand for border and fine for pots.**Empress** Combs of Colossal size, known to measure 45 inches from tip to tip; rich crimson 10c.**Glasgow Prize** Dark Crimson 10c.**Dwarf** 8 inches high, sometimes measure 2 ft. across 10c.**Mixed Dwarf** 5c.**Centaurea** Under this name is included the popular annuals like Corn Flower, Blue Bottle, Ragged Sailor, Sweet Sultans, etc. Great favorites, fine for cut flowers; white-leaved sorts, or 'Dusty Miller' are largely used for bedding, vases, etc.**Sweet Sultans** (Centaurea Imperialis) Beautiful, sweet-scented, strong stems, when cut will stand for several days in good condition of easy culture. Mixed colors 10c. Named colors 10c.**Giant Sweet Sultans** (Centaurea Oderata) or Giant Cornflowers, easy to cultivate, flowers 2 to 4 inches in diameter, very graceful, sweet-scented.**Chameleon** Pale yellow turning to a beautiful rose 10c.**Oderata** Reddish lavender, very fragrant 10c.**Margarita** White 10c.**Cheiranthus** (See Wall Flower) Mixed 5c pkt.**Chrysanthemums** Annual sorts, snowy, effective garden favorites. Dbl. mixed 10c per sgl. mixed 10c pkt.**Cineraria** Seed may be sown from May to September in succession. Where only one sowing is made July should be preferred. Cinerarias grow so freely that the seedling may go straight from seed-vans to thumb-pots. For transplanting, plant in a cold frame facing north, if possible. When pots become full of roots shift into larger ones until the flowering size is reached.**Dwarf Mixed** 25c per pkt.**Tall Mixed** 25c per pkt.**Double Flowering** 25c per pkt.**Stellata** (Star Cineraria) A charming variety with large spreading panicles of starry flowers. Same colors as the common Cineraria. The grace and elegance of the plant and flowers make them very effective for house or conservatory decoration; especially fine for church decoration and very useful for cutting. 35c.**Cineraria** (White Leaved Sorts)**Dusty Miller** Fine for bedding and margins, valued for their beautiful, downy, silvery foliage, half hardy perennial; 2 ft.**Maritima Candidissima** Silvery foliage 5c pkt.**Acanthifolia** Silvery foliage 10c pkt.**Clematis** Rapid-growing climber, fine for arbors and verandas. Seeds are slow to germinate, and should be soaked in warm water 24 hours; hardy perennial mixed colors. 10c pkt.**Cianthus** (Australian Glory Pea) Beautiful, tender, perennial shrub with clusters of brilliant pea-shaped flowers, 3 inches in length, with large black blotch for center. 10c pkt.**Cobaea** (Cups and Saucers Vine) A rapid climber, fine for trellises, arbors, etc., clings to any rough surface. Place seeds in the ground edgewise and cover with light soil.**Purple** 10c pkt. pure white. 10c pkt.**Coccinea Indica** (Scarlet-fruited Ivy-leaved Climber) Handsome, annual, gourd species with beautiful glossy ivy-like leaves, contrasting with the fine snow white bell-shaped flowers and bright carmine fruit. 10c pkt.**Coleus** (Flame Nettle) An attractive foliage plant for house or garden, very interesting to grow from seed, easily raised; sow in March or April. 10c pkt.**Convolvulus** (Morning glory) Climbing varieties, very popular and one of the most fragrant-flowering, rapid-growing plants in cultivation; doing well in almost any situation, with beautiful brilliant flowers; annuals, 15 ft. Mixed colors 15c oz. 5c pkt. Dwarf per oz. 15c. 5c pkt.**Coreopsis** (See Calliopsis) A very fine hardy plant with large, showy bright, yellow flowers, produced in great abundance from June until frost, especially fine for cut flowers having long stems and lasting in good condition a week or more. These grow from seed, flowering the first year if sown early. 5c pkt.**Cosmos** Beautiful autumn-blooming plant, producing thousands of beautiful flowers in pure white, pink and crimson shades; fine for autumn decoration when other flowers are scarce. Sow in spring in open ground when danger of frost is over, or may be started under cover and transplanted. Set about 18 inches apart in rows or in masses in beds. When about a ft. high pinch the tops out to induce a bushy growth. 2 1-2 to 4 ft. in height.**Crimson**, 5c.**Pink** 5c.**White** 5c.

**Cosmos** (Continued)**Mixed** 5c pkt.**Dwarf** 5c pkt.**Cucurbita** (See Ornamental Gourd)**Cyclamen** Charming plant with richly colored foliage, fragrant flowers. Great favorites for winter or spring. Sow in spring or autumn.**Persicum** Choicest mixed. 15c pkt.**Pure** white, dark red, rose each 25c pkt.**Cyperus** (Umbrella Plant)**Alterdifolius** Excellent for growing in water or damp places. Very ornamental house plant. 10c.**Cypress Vine** (*Ipomoea Quamoclit*) A favorite summer climbing annual, with feathery foliage and star-shaped flowers borne in clusters.**White** 5c pkt.**Scarlet** 5c pkt.**Rose** 5c pkt.**Mixed colors** 5c pkt.**Dahlia** One of the best late summer and autumn flowering sorts, very popular. The double sorts will bloom first season if sown early. Single will bloom first season if sown in the open ground. Many prefer the single sorts to Cosmos, having the larger variety of colors and longer season of bloom.**Double**, finest mixed 10c.**Single**, finest mixed 10c.**Single Tom Thumb**, dwarf, 1 ft. 10c.**Datura** (Trumpet Flower) Ornamental annuals, large showy flowers; 2 to 3 ft. Dbl. and ~~ext~~ 10c pkt.**Delphinium** (Perennial Larkspur) One of the handsomest hardy perennials, splendid flowers and curiously cut leaves; for permanent beds and borders they are indispensable.**Zalil** (Hardy Yellow Larkspur) Produces very long spikes of 40 to 50 sulphur yellow blossoms, each 1 inch in diameter; flowers from June to August, plant thrifty and bushy; 3 to 4 ft. 10c pkt.**Formosum** Popular for groups, tall spikes of dark blue flowers with white eyes; 2 to 3 ft. 5c pkt.**Nudicaule** Large scarlet flower; 1 1/2 ft. 10c pkt. Mixed finest single 5c pkt. mixed 10c pkt.**Dianthus or Pinks** A magnificent sort embracing some of the most popular flowers in cultivation, of great variety and brilliancy with profusion of bloom. The sorts classed as annuals may be sown out-of-doors when danger of frost is past. In a few weeks time they are a mass of bloom continuing until frost; 1 ft.**Double Annuals****Chinensis Fl. Pl.** (China or Indian Pink). Mixed colors 10c.**Hedgewigi Fl. Pl.** (Japan Pink) Double mixed 10c.**Snowball** Double white, fringed, very fine 5c pkt.**Imperial Fl. Pl.** (Double Imperial Pink) Mixed 10c.**Salmon King** A double flowering variety, finely fringed flowers of a brilliant salmon color 10c, changing as they fade to a salmony-rose; charming for beds or borders. 10c pkt.**Single Annuals** All single sorts have large flowers 2 to 4 inches in diameter, fine for beds or borders; 1 ft. high.**Hedgewigi Nobilis** (Royal Pink) Beautifully fringed, colors run from white to dark red 10c.**Hedgewigi** (Japan Pink) 10c.**Lacinatus Fl. Pl.** (Double Fringed Pink) Large, double, showy flowers, with fringed edges and beautifully striped; mixed various colors. 5c.**Hardy Garden Pinks** The varieties are well adapted for beds and borders; delightful, refreshing, spicy odor, should be in every garden where cut flowers are wanted.**Semperflorens** (Ever-blooming hardy garden Pinks) Very beautiful, sweet-scented, double semi-double and single in great diversity of colors, mixed colors. 25c.**Dianthus** (See Carnation) Carnations are general favorites for their delicious fragrance and richness of colors. They are indispensable for the green-house in winter and the garden in summer. The Marguerite is one of the best for summer flowering.**Fine Double Mixed** The best for garden culture 10c pkt.**Marguerite** These are the most popular of carnations with the amateur, as they begin flowering within a few weeks from the time of sowing. Our strain is of semi-dwarf, robust habit requiring no artificial support, and produces on long strong stems an abundance of large double, beautiful fringed, highly scented flowers. Separate colors 10c. Mixed, all colors Marguerite Carnation 10c.**Didiscus** Very pretty annual, blooms profusely from July to November, pale lavender blossoms excellent for cutting. 15c pkt.**Digitalis** (Foxglove) Handsome ornamental hardy perennial plant, easily grown, fine for shrubberies; 3 ft. Mixed colors. 10c pkt.**Dolichos** (Hyacinth Bean) Rapid annual climber with large clusters of handsome flowers producing later in place of flowers, pods of a deep purple, very ornamental, mixed colors. 10c pkt.**Dracæna** (Dragon Plant) Fine ornamental leaved plant. Mixed colors. 25c pkt.**Echinocystis** (Wild Cucumber Vine) Quickest growing vine known, fine for covering trellises, fences, etc. 5c pkt.**English Daisy** (*Bellis Perennis*) A favorite almost hardy perennial blooms from early spring until late in summer, easily raised from seed, 4 inches high.

Dbl. mixed, finest quality 10c. Red, white or pink 10c.

**Erigeron** (Flea-bane) An attractive, asterlike flower, 1 inch across, purplish-rose with golden center, hardy perennial, blooms first year from May until frost if sown early. 20c pkt.**Eryngium** (Sea Holly) Handsome ornamental, hardy plant 2 to 3 ft. high. Fine for drying for winter bouquets. 15c pkt.**Schizanthus** (California Poppy) Fine annual for beds, border or masses, bloom until frost; 1 ft. Sgl. mixed 5c pkt. dbl mixed 5c pkt.

**Euphorbia** Strong, tall, growing annual, attractive foliage. 10c pkt.

**Forget-me-not** (See *Myosotis*) 5c.

**Four o'clock** or *Mirabilis* 5c.

**Fox Glove** (See *Digitalis*)

**Fuchsia** (Lady's Eardrops) Well-known sort of easy culture, for house or garden, mixed colors. 25c pkt.

**Gaillardia** (Blanket Flower) Splendid showy annual, remarkable for profusion, size and brilliancy of flower, bloom until frost, fine for beds, borders or cutting; 1 1-2 ft. Mixed colors annuals 10c pkt. Mixed colors, perennials, 5c pkt.

**Geranium** (Pelargonium) Double mixed, fine color 30c pkt.

**Globe Amaranth** (Gomphrena) Known as Bachelor's Buttons. fine bedding plant, flowers can be dried and be used in winter bouquets; 2 ft. mixed colors. 10c pkt.

**Gloxinia** A superb greenhouse sort with magnificent rich colored flowers; do best in equal mixture of peat, loam and sand, mixed colors. 25c pkt.

**Godetia** An attractive, hardy annual, profuse, showy flowers of varied colors; 1 1-2 ft. Mixed colors. 10c pkt.

**Gourds** **Ornamental** (Cucurbita) Rapid-growing, annual climbers, ornamental foliage; 18 to 20 ft. Mixed colors. 5c pkt.

**Grasses, Ornamental** These serve the double purpose of rendering mixed flower-beds or borders attractive in summer and for use in a dried state in winter bouquets, for large beds or groups on lawns, nothing gives a finer effect; largely used in public parks.

**Arundo Donax** (Great Reed) Hardy perennial. 10c.

**Briza Maxima** Fine for grass bouquets. 5c.

**Bromus Brizaformis** Graceful, drooping perennial. 5c.

**Coix Lachrymæ** (Job's Tears) Broad, cornlike leaves, annual. 5c.

**Erianthus Ravennæ** (Hardy Pampas) Beautiful perennial. 5c

**Gynerium Argenteum** (Pampas Grass) Perennial, blooms the second season. 10c.

**Stipa Pennata** (Feather Grass) Perennial, beautiful white, delicate begins to bloom the second season; 2 ft. 5c.

**Lysimachia** Pretty, free-flowering plant for rock work, edging, etc. Mixed colors. 5c pkt

**Helianthus** (See Sunflower)

**Helichrysum** (Straw Flower) Fine, everlasting double flowers, fine for display; hardy annuals 2 ft. Mixed colors. 5c.

**Heliotrope** (Cherry Pie) Half-hardy perennial, flowering the whole season, very fragrant. Can also be trained as a greenhouse climber. Mixed colors. 10c.

**Hibiscus** (Marshmallow) Showy, perennial plant with large beautiful colored flowers; 1 1-2 ft. Mixed colors. 10c.

**Hollyhocks** One of the most majestic of hardy plants, so well known that it needs no further description.

In separate colors. 10c.

Choice single mixed colors. 10c.

Choice double mixed. 10c.

**Honesty** (Moonwort Satin Flower) Hardy biennial, with silvery seed pouches, very attractive; 2 ft. 10c.

**Humulus** (Japanese Hop) Ornamental, fast-growing climber resembling the common hop. 10c

**Impatiens** (Sultans or Zanzibar Balsam) Charming plant for decorating greenhouse or dinner table, producing bright, waxy looking flowers. Mixed colors. 25c.

**Ipomoea** Climbers of very rapid growth, beautiful, varied flowers; for covering walls, arbors, stumps, etc.

**Coccinea** (Star Ipomoea) Small scarlet flowers 5c.

**Bona Nox** (Evening Glory) Violet, large fragrant flowers, expanding in the evening. 5c.

**Rubra Cœrulea** (Heavenly Blue) Bright sky blue. 10c.

**Grandiflora** (Moon Flower) Blooms at night and on dull days, pure white flowers, 5 to 6 inches in diameter, rapid climber, 10c.

**Job's Tears** (Coix Lachrymæ)

**Kenilworth Ivy** (See *Linaria*)

**Kochia Tricophylla** or **Burning Bush** 10c pkt

**Lady Slipper** (See *Calceolaria*)

**Lantana** One of the most desirable half-hardy perennials, constantly in bloom, verbena-like heads of orange, white, rose and other colors; 2 to 5 ft. Mixed colors 10c.

**Imperial Japanese** This variety without question the handsomest of all Morning Glories. Sow in good soil as soon as weather permit, a strong vigorous climber, flowers of gigantic size, remain open most of the day. The colorings are beyond description. Choice mixture 10c.

**Larkspurs** (See *Delphinium*) One of the best known garden flowers, hardy annuals

**Dwarf Rocket** 1 ft. Mixed colors 10c. Dbl. mixed 10c.

**Double Stock Flowered** Tall branching sort; 2 ft. 5c.

**Lathyrus** (Everlasting or Hardy Sweet Pea) Free-flowering hardy perennial climber continually in bloom. Mixed colors. 5c pkt.

**Lavender** (Lavandula Vera) Well-known, sweet-scented, hardy perennial; 3 ft. 5c pkt.

**Linaria** (Kenilworth Ivy) Charming small, hardy perennial, trailing plant. 10c pkt.

**Linum** (Scarlet Flax) A very showy bedding plant, brilliant scarlet, excellent bloomer, hardy perennial; 1 ft. 5c pkt.

**Lobelia** (Cardinal Flower) Popular flowering plant for pots, hanging baskets, etc. Bloom profusely from June to November, hardy perennial.

**Crystal Palace** Rich deep blue. 10c pkt.

**Crimson**, white or blue 10c pkt. Mixed colors 5c pkt.

**Hardy Perennial Lobelias** (Cardinal Flower) Brilliant scarlet; 3 ft. 10c pkt.

**Lophospermum** Beautiful climbing plant, trumpet shaped flower, 10 ft. 10c pkt.

**Lapinus** Ornamental free-flowering annual, various colored, pea-shaped flowers; 2 ft. 5c pkt.

**Lychnis** Handsome hardy perennial, easy culture, fine for beds and borders. Mixed colors 10c.

**Marigold** (See *Tagetes* also *Calendula*. French Varieties) An old favorite, free-flowering

**Double Yellow** 10c pkt.

**Marigold (Continued)****Single Yellow** 10c pkt.**Mixed colors** 5c pkt.**African varieties****Double yellow** 10c pkt.**Large African Tall**, double yellow; 2 ft. 5c pkt.**Signata Pumila** A dwarf, compact, bushy annual marigold with beautiful delicate fern-like leaves, densely covered with flowers of bright yellow striped brown; fine border plant. 5c pkt**Matricaria (Feverfew)** Free-flowering, blooms until frost, hardy annual; 18 inches. Dbl white 10c pkt.**Maurandia** Beautiful, slender-growing Climber, half-hardy perennial; 10 ft. Mxd colors 10c**Mesembryanthemum (Ice Plant)** Dwarf trailing plant of great beauty, blooming the whole summer, half-hardy annual; 6 inches. 5c pkt.**Mignonette (Reseda)** A popular favorite, sown in April and again in July, will keep up a succession of bloom until frost; also suitable for pots, very fragrant, (orange) 5c pkt.**Golden Machet** 10c.**Miles** Spiral spike; 8 to 10 inches long, very fragrant. 5c.**Improved red** 5c.**White** Very fragrant. 5c.**Sweet scented** Old popular variety, small spikes, very fragrant. 5c.**Mimosa (Sensitive Plant)** A curious, interesting annual with pinkish-white flowers, leaves close and droop when touched or shaken. 5c pkt.**Mimulus (Mush Plant)** Very showy, profuse-flowering plant, half-hardy perennial, blooms first year if sown early; 1 ft. 5c pkt.**Tigrinus (Monkey Flower)** Spotted variety. 5c.**Moschatus (Musk Plant)** Fine for hanging baskets, small yellow flowers, fragrant foliage 5c.**Palustris** The true for get-me-not, beautiful blue flower; 6 inches. 10c.**Mirabilis (See Four o'clock)** 5c pkt.**Momordica** Very curious climber, ornamental foliage, fruit golden yellow, opens when ripe, showing the seed and its beautiful carmine interior, fine for rock-work, etc., annual 10 ft. 5c**Morning Glory (See Convolvulus)****Musa Ensete (Abyssinian Banana)** A splendid plant for open ground, producing a most striking effect when planted singly or in groups, thrives best in hot seasons, growing very large, 10 to 20 ft, especially when freely supplied with liquid manure. Seeds germinate easily if started in hot bed; tender perennial. 25c.**Musk Plant (See Mimulus)****Myosotis (For get-me-not)** A pretty, small, double, aster-like flower, half-hardy perennial, blooms first year if sown early, bright blue; 6 inches. 5c.**Nasturtiums (Tropaeolum)** For ease of culture, duration of bloom, brilliancy of color and general all around purposes nothing excels this popular variety. Plant in moderately good soil well drained, sunny position, quick growing and bloom profusely until hard frost comes. Tall Climbing Sorts. Crimson 5c, lilac 5c, yellow 5c, white 5c, purple 5c, rose 5c, mixed 5c.**Lobb's Climbing Nasturtiums** Scarlet, white, red. 5c each.**Tom Thumb** No collection of flowers should be without Nasturtiums, they grow so freely and afford such a variety of rich bright colors. As a cut flower there is nothing more effective, sweet-scented and pleasing in every way.**Tall** Varieties mixed. 10c oz. 5c pkt.**Dwarf** Varieties mixed. 15c oz. 5c pkt.

Our mixture of Nasturtiums is the finest in the country.

**Nasturtium Dwarf** Aurora, very fine 5c pkt.  
" " Beauty, yellow and scarlet, 5c pkt.  
" " Bronze, 5c pkt.  
" " Cardinal (Dark scarlet) 5c pkt.  
" " Cloth of Gold (Light foliage) 5c pkt.  
" " Crystal Palace dwarf, 5c pkt.  
" " Empress of India (Dark leaves) 5c pkt.  
" " King of Tom Thumb, 5c pkt.  
" " King Theodore, very dark, 5c. pkt.  
" " Ruby King, 5c pkt.  
" " Flammulium, Grandiflorium, tall. Scarlet and yellow, extra fine, 5c pkt.**Nicotiana (Tobacco Plant)** Delightful, sweet-scented, pure white tubular flower, blooming continuously; annual; 2 to 3 ft. 5c pkt.**Nigella (Love in a Mist, or Devil in the Bush)** A compact, free-flowering plant with curious looking flowers and seed-pods; of easy culture; hardy annual; blue and white mixed; 1 ft. 5c pkt**Ornamental Grasses (See Grasses)****Pansies** Are so well known that no description is necessary. Sow early and transplant. Our pansies are imported direct from the grower and are equal to the best that are offered.

Fine mixture of leading shades and colors 10c.

Extra choice mixture of best large flowering varieties, 25c.

**Giant Trimardeau Pansies**

Fine mixed 10c.

Cardinal, fine scarlet, very showy 10c.

King of the Blacks 10c.

Golden Yellow 10c.

Emperor William 10c.

Light Blue 10c.

Snow Queen 10c.

Pure Yellow 10c.

**Violas or Tufted Pansies** While the Pansy Proper is a spring flower, violas flower throughout the entire season. Seeds sown in spring produce flowering plants by June which bloom until frost. Splendid mixed colors, fine varieties. 10c.

**Passiflora** (Passion Flower) Fine climbing plant for garden or greenhouse with a profusion of attractive flowers; mixed. 10c.

**Pentstemon** (Beard-Tongue) One of the most beautiful attractive herbaceous plants; bearing long graceful spikes of rich colored flowers: if sown early and transplanted in May will bloom in July until frost, half-hardy perennial; 2 ft. mixed colors 10c

**Perilla** Foliage a dark purple, annual; 2 ft. 5c pkt.

**Petunia** For outdoor decoration or house culture few plants equal the Petunia. Commence flowering early and continue a mixture of bloom until killed by frost, easily cultivated, requiring a good soil and sunny position.

**Superb** double fringed. 50c.

**Double Large Flowering** fine mixture. 25c.

**Single Varieties**

**Ruffled Giant** Very large, in great variety of colors 25c

**Fringed Giant**, Very fine. 35c.

**Snowball** Pure white. 10c.

**Striped and Blotched** Small flowering. 5c.

Fine mixed, all colors. 10c.

**Phlox Drummondii** Of all summer flowering annuals this variety is unquestionably one of the most brilliant and satisfactory. Seed may be sown in open ground after danger of frost is past and in a few weeks the beds or borders are all aglow with their brilliant coloring until cut down by the frost. For early flowering they should be started indoors.

**Phlox Drummondii** Mixed colors. 5c pkt.

White 10c, pink 10c, rose 10c, scarlet 10c, red 10c.

**Dwarf Phlox** This strain of dwarf, compact habit, makes a desirable pot plant, also for ribbon lines and massing; 6 inches high.

Scarlet, white, pink, mixed colors 10c.

**Double Phlox** Especially fine for cut flowers, lasting better than the single sorts. Sow in light soils. Mixed colors 10c.

**Star Phlox** (Star of Quedlinburg) Dwarf, pretty star-shaped flower. Mixed colors 10c.

**Hardy Perennial Phlox** All colors, mixed 10c.

**Pinks** (See Dianthus)

**Poppies** An extremely popular brilliant flowering annual. Poppies should be sown where they are to remain, as they will not stand transplanting.

**Single Annual Poppies** Shirley's selected Strain 10c, scarlet 5c, white 5c.

**Plus Poppy** 14 inches high, producing many large tulip-shaped scarlet flowers 10c Single mixed 5c.

**Oriental Poppy** Perennial, exceedingly showy, scarlet with black centre. 10c pkt.

**Double Annual Poppies** Mixed colors 5c.

**Peony Flowered** Large showy, double mixed colors 5c.

**Portulaca** (Sun Plant) Fine hardy annual, of easy culture, thrives best in rather rich light sandy loam and sunny situation, flowers of richest colors, blooming throughout the summer in great profusion, fine for beds, edging or rockwork; 6 inches. Sgl. mixed 5c. Dbl. mixed 10c.

**Primula** Charming beautiful Chinese Fringed Primrose, fine for winter or spring decorations. One of the most important winter-blooming pot plants, sow from March to May. White 50c pkt. scarlet 50c pkt. pink 50c pkt. crimson yellow eye 25c pkt. mixed colors 25c pkt. Double white 10c. Dbl. white 10c. Dbl. mixed 10c. pkt.

**Primula** (Obconica Grandiflora) On single white, slight tinge of lilac. Everblooming. 10c pkt

**Pyrethrum** Handsome herbaceous plants of easy culture so much used for bedding edging etc.

**Aureum** (Golden Feather) Bright yellow foliage, 10c.

Double mixed 25c, single mixed 10c.

**Reseda** (See Mignonette)

**Rhodanthe** (Swan River Everlasting) A charming annual; does well in a light rich soil and warm sheltered situation. Fine for pot culture, flowers everlasting. Mixed colors. 5c.

**Ricinus** (Caster Oil Bean) Ornamental plant of stately growth and picturesque flowers, brilliant colored fruit; fine for lawns or center plants for beds, mixed all colors. 5c.

**Phillippiensis** 10 ft. 5c.

**Salpiglossis** (Painted Tongue) One of the greatest favorites among annuals. Partly on account of its easy culture, but mostly for its beautiful, almost orchid-like flowers. Mixed sorts 5c pkt.

**Salvia** (Flowering Sage) A favorite bedding plant, bearing long spikes of flowers in great profusion from July until frost, half-hardy perennial, blooms the first year from seed sown indoors and transplanted when weather permits.

**Splendens** (Scarlet Sage) Beautiful bright scarlet. 10c pkt.

**Patens** (Blue Sage) 5c.

**Scabiosa** (Mourning bride or Sweet Scabious) A very handsome and autumn border plant with great profusion of very double flowers. Splendid for table bouquet; hardy annual; 2 ft. Double mixed. 10c pkt.

**Scarlet Runner Beans** Great favorite of England and continent of Europe, not only as an ornamental climber, but for the delicious edible beans which succeed the bright scarlet blossoms. 5c pkt.

**Schizanthus** (Butterfly or fringe flower) Splendid annual with a profusion of various colored flowers; fine for greenhouse decorations and flower garden, of easy culture. Mixed. 5c pkt

**Smilax** (Myrsiphyllum Asparagoides) In many respects the Smilax is the most useful, and certainly one of the most graceful climbers; for bouquets and floral decorations it is indispensable. Soak seed in warm water for 12 hours and plant in pots. A tender perennial; white; 10 ft. 10c pkt.

**Solanum** (Jerusalem Cherry) Very useful pot plant for winter decoration, dwarf branching habit, leaves small and oval shaped, bearing in great profusion bright scarlet globular berries 1 ft. 10c pkt.

**Swertia** (See Antirrhinum)

**Stocks** (Gilliflower) The stock is one of the most popular annuals, either for bedding or pot culture, for brilliancy and diversity of color, fragrance, profusion and duration of bloom it is unsurpassed.

**Stocks** (Continued)

**Large Flowering 10-Weeks Stocks** Red 10c, blue 10c, pink 10c, purple 10c white 10c, yellow 10c, mixed colors 10c.

**Cut-and-come-again 10-weeks stock** Splendid perpetual blooming class. Sow March or April. They begin flowering in June, continuing until frost, and are especially valuable from September to October when other flowers are scarce. They throw out numerous side branches, all bearing fine double flowers. Excellent for cutting. White 10c, rose 15c, red 15c, blue 15c. Fine mixed colors. 10c pkt.

**German Stocks** Half-hardy biennial, double flowers; 2 ft. Mixed colors. 10c pkt.

**Sunflower** Remarkable for their stately growth, size and brilliancy, making a very showy effect among shrubbery and for screens. Single sunflowers are indispensable for cutting. Sow in a sunny spot in April or May. They come into bloom early in summer and keep up a constant supply of flowers until cut down by frost. 5c pkt. Single dwarf or miniature sunflower 10c pkt. Giant Sunflower, 8 ft. 5c pkt.

**SWEET PEAS** Ebeling's cream of the named Sweet Peas. This is a select list of giant-flowering varieties. We have discarded all small-flowering sorts and duplicates under different names.

**America** Crimson scarlet, striped on white, large size. 5c pkt. 20c oz.

**Blanche Ferry** Extra early. The popular pink and white. Comes into flower ten days earlier than others. 5c pkt. 20c oz.

**Dainty** Pure white edged with pink on the standards and wings. 5c pkt. 20c oz.

**Dorothy Eckford** The grandest, pure white; very large, producing enormous mass of blooms. 5c pkt. 20c oz.

**Gorgeous** Brilliant orange salmon. 5c pkt. 25c oz.

**King Edward VII** Bright red, giant flowering, very fine, strong stems. 5c pkt. 20c oz.

**Lady Grisel Hamilton** The finest pale lavender. 5c pkt. 20c oz.

**Lotte Eckford** White shaded lilac, white shaded, and edged lavender blue. 5c pkt. 20c oz.

**Lovely** Warm rose, pink, large and extra fine. 5c pkt. 20c oz.

**Navy Blue** Deep indigo blue, medium size. 5c pkt. 20c oz.

**Othello** Deep maroon, very dark maroon, fine form and large size. 5c pkt. 20c oz.

**Prima Donna** Soft pink; a magnificent rich, pure pink; very fine. 5c pkt. 20c oz.

**Prince of Wales** The finest bright rose. 5c pkt. 20c oz.

**Sweet Peas Mixed** Price, 5c pkt: 15c oz; 25c 1-4 lb; 75c lb. Our mixture of sweet peas are mixed under our personal supervision and contain all of the very best named sorts known to the trade, and we confidently offer them to most careful and critical buyers. A finer mixture cannot be found.

**Sadie Burpee** Pure white, large size, very fine. 5c pkt. 20c. oz.

**Black Knight**—Deep Maroon. 5c pkt. 20c oz.

**Lord Nelson**—Rich Navy Blue. 5c pkt. 20c oz.

**Countess of Radnor**—Light Lavender. 5c pkt. 20c oz.

**President**—Spencer Type, Chocolate Markings on Gray Ground, Wavy. 25c oz.

**Barbara**—Spencer Type, a large Salmon Orange—Beautiful Color. 25c oz.

**John Ingman**—Spencer Type, Rosy Carmine showing rims of deeper shade. 25c oz.

**King Edward**—Spencer Type, Rich Crimson, Waved. 25c oz.

**Spencer Mixed**—25c oz.

**Maud Holmes**—Large Crimson waved. 5c pkt. 20c oz.

**Sweet Rocket** (Hesperis) Old-fashioned garden plant, also known as Dame's Rocket and Dame's Violet; 2 to 3 ft. high, with spikes of showy white, lilac and purple fragrant flowers, fine for shrubbery and permanent border; mixed colors. 5c pkt.

**Sweet Sultan** See Centauria.

**Sweet William** (London Tufts) A well-known attractive free-flowering hardy perennial, fine for beds and shrubbery; 1 1-2 ft. Sgl. mixed 5c. Double mixed 5c pkt.

**Tagetes** (See Marigolds and Calendula)

**Signata Pumila** A dwarf, compact, bushy, annual marigold with beautiful delicate fern-like leaves, densely covered with flowers of bright yellow striped brown; fine border plant. 5c pkt.

**Thunbergia** (Black-eyed Susan) Beautiful rapid-growing climber used especially for hanging baskets, low fences, etc., flowers in buff, white orange, etc., with dark eyes; mixed colors 5c pkt.

**Torenia** Fine annual; splendid plant for vases, hanging baskets, borders etc., blooming the entire season. Blue, white, and yellow. 10c pkt.

**Tritoma** (Red Hot Poker Plant) Readily grown from seed. Will bloom first year if sown early. Tritomas are becoming very popular for bedding plants and cut flowers; hardy perennial: 4 ft. Vary in color from light and deep orange, salmon and carmine. 10c pkt.

**Tropaeolum** (See Nasturtium)

**Verbenas** One of the most popular and free-blooming varieties and so well known that a description of this variety is unnecessary. Half-hardy perennial; easy of culture; sow early and transplant when weather permits. Fine for beds, baskets, rockeries, etc. Scarlet 10c, variegated 10c, white 10c, mixed colors 10c.

**Viola** (See Pansies)

**Vinca** (Madagascar Periwinkle or old Maid) Ornamental free-blooming plant, fine for bedding flower from seed the first season continuing until frost, or they may be potted and kept in bloom through the winter, 2 ft. Rose 10c, white 10c, mixed 5c.

**Wall Flower** (See Cheiranthus) Half-hardy perennial, 1 1-2 ft high. Mixed 5c pkt.

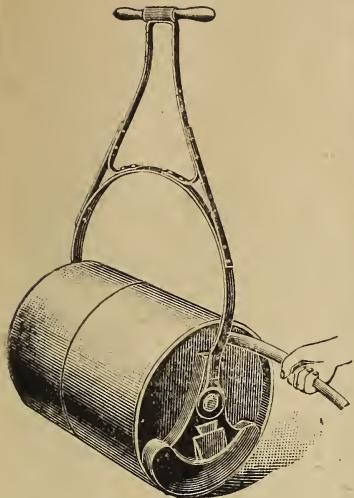
**Wild Cucumber** (See Echinocystis.) 5c pkt.

**Wild Flower Garden** 5c pkt.

**Zinnias** (Youth and Old Age) One of the most brilliant and showy of annuals. An old and continued favorite. The seed can be sown early and transplanted or sown later in open ground. They come into bloom early in summer, and continue until hard frost.

Dwarf double white, orange scarlet, rose, etc. 5c. Tall double mixed 5c. Dwarf single mixed 5c.

## FOREST CITY BALL BEARING

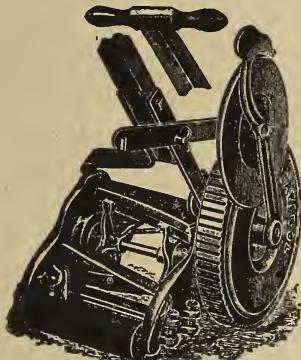
Dunham Lawn Rollers  
ROLLER BEARING

are infinitely superior to other rollers. In efficiency, being 44 per cent. lighter running than any other roller on the market by actual tests. With a Dunham a boy can do the work that requires a man's strength with other rollers of the same weight. 200 lbs., \$12; 250 lbs. \$13; 300 lbs.

## Water-weight Roller

The Dunham Ball-bearing Water-weight Roller is made in one section and electric-welded, no rivets being used so the water cannot possibly leak out. The weight of this roller can be increased or diminished by increasing or decreasing the water. Very simple and easy to handle and revolutionizes the work of rolling. When not in use the water can be let out if desired. Prices \$12.00 to \$16.00

## Capital Lawn Trimmer

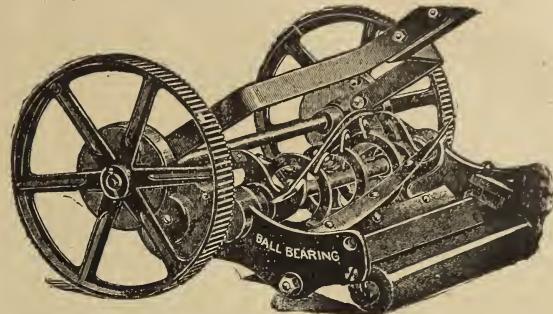


For trimming around walks, flower beds, trees, posts, monuments and shrubbery, and all places that cannot be reached with any lawn mower. Cuts within one fourth of an inch of the edge.

Has a revolving cutter with four crucible steel blades, tempered in oil and cuts six inches wide.

PRICE \$10.00

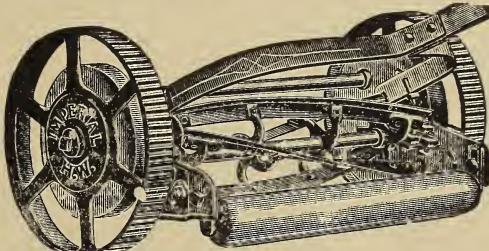
PRICES SUBJECT TO CHANGE WITHOUT NOTICE



This unquestionably is the Best BALL BEARING MOWER on the market. Perfect in detail, absolutely guaranteed.

15 inch.....	\$23.00	19 inch.....	28.00
17 inch.....	25.50	21 inch.....	30.00

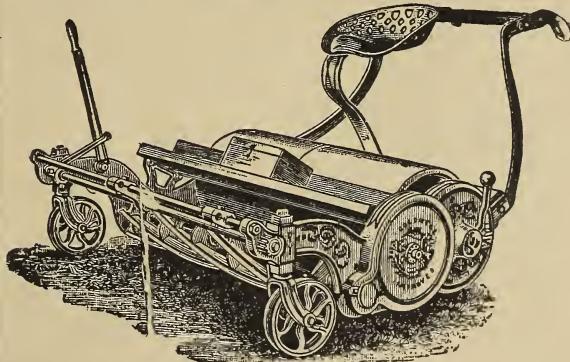
## HIGH WHEEL IMPERIAL



Absolutely Warranted for Two Years. Positive Adjustment Has no Equal. In Public Parks, Private Lawns and Cemeteries everywhere. Ask for Special Catalogue.

16 inch.....	\$22.00	20 inch.....	24.00
18 inch.....	23.00	22 inch.....	25.00

## IMPERIAL HORSE LAWN MOWER



Price on Application.

Absolutely Guaranteed to Cut Clean in turning around.

Send for Catalogue and Prices.

## SPRING PLANTS, BULBS AND ROOTS.

	PER DOZ.		EACH DOZ.		EACH DOZ.
Cauliflower Plants	25 cts	Salvia	.10	1.00 "	For-get-me-not .10
Cabbage	10-25 "	Alyssum	10	1.00 "	1.00 "
Tomato	25 "	Aster	.35	"	Dracaena .10
Egg Plant	50 "	Vincas	.15	1.75 "	.50 "
Pepper	25 "	Verbenas	.05	50 "	Pansy .40 "
Kohlrabi	"	Geraniums	.10	1.00 "	Beautiful Japanese Fern
Root Celery Plants	"	Assorted Plants	.10	1.00 "	Balls each 50 "
Sweet Marjoram	"	Cannas	.10	1.00 "	to \$2.00
Sage Plants	"	Snap Dragon	.08	1.00 "	Moss for hanging .15 per lb.
Summer Savory	"	Ten-Weeks Stock	10	1.00 "	
Thyme	"	Double Lobelia	12	1.25	

Callaillums, Gladiolas, Dahlias, Tube-Roses, Tuberous Begonias, Maderia Vines, Peonies, Glorxinias.

## FLORISTS' SUNDRIES

Self Registering Thermometers	Hanging baskets
Tin Foil	Flower Supports
Green Moss	Plant Stands
Florist Letters	Trellisses
Raffia and Reed	Shears
Immortelles	Scissors
Mastica	Fine Cutlery
Plant Labels	Syringes for Plants
Fumigators	Flower Pot Brackets
Bulb Syringes	Sharpening of Shears, etc.
Glazing Points	Lawn Seed and Fertilizers
Flower Pots	Bird Supplies
Hyacinth Glasses	Wire Plant Supports

## GALVANIZED WINDOW BOXES

Silkaline, per spool, 30 cents

## BERRY BASKETS.

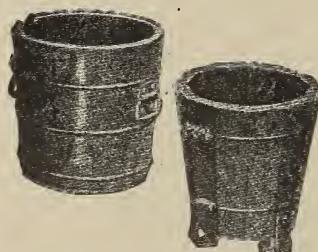
Under the new law all Berry Baskets must be made up to the standard size. We offer Berry Baskets of correct size and shape and well made. Prices right. Our Baskets fit the Crate perfectly. We can save you money on berry baskets if you place orders early. Call and see us before buying.

## GRAPE BASKETS

We carry a large stock of Grape Baskets at the lowest market price.

## FLOWER TUBS, ALL SIZES

\$1.00 \$1.50 \$2.00 \$2.50 \$3.00 \$4.00



Flower Pots

Hanging Baskets

Fern Pans

Lily Pans

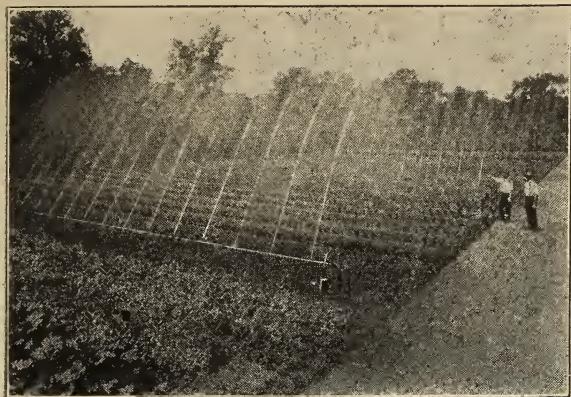
TRELLISES,  
URNS, VASES,  
SETTEES.

We offer a fine variety of styles in various sizes suitable for lawns front, yards, cemeteries, parks etc. These can be furnished to order on short notice, at reasonable prices. For full particulars, write or call and see us.



PRICES SUBJECT TO CHANGE WITHOUT NOTICE

## WATER YOUR GARDEN THIS WAY



No more dry weather worries. Turn a valve and have rain when you want it. Beat your neighbor for early vegetables as well as quality. Skinner System special portable irrigation lines keep the soil soft and porous; reduce cultivation; make gardening a real pleasure. An exact reproduction of the big truck growers' system. Waters a strip 50 feet wide and the length of the line at 30 pounds pressure.

Lines of heavily galvanized pipe, equipped every three feet with patent brass nozzles that break the water into the fine spray that makes crops grow like magic. Roller Bearing supports for the line, flushing valve,

turning union all included. Does not require a plumber. Any man with a monkey wrench can put up a line in a few moments. Attaches to inch hose or underground pipe. Can be supported on pipe any size,  $\frac{3}{4}$  inch to  $1\frac{1}{4}$  inch. Complete directions with each line.

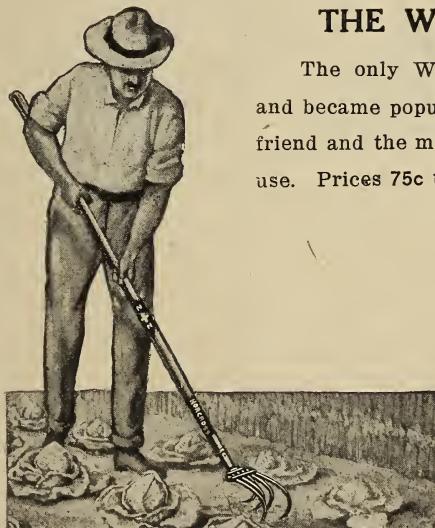
Lines from 30 to 130 feet long can be fed through  $\frac{3}{4}$ -inch hose; lines from 180 to 200 feet long fed by 1-inch hose.

Price: 40 cents per foot for lines from 50 to 200 feet long, plus \$1.50 extra.

Example: 50-foot line \$21.50. Lines from 30 to 50 feet long at the 50-foot price (\$21.50) less 20 cents per foot. Example: 30-foot line, \$17.50.

## THE WEEDEER THAT WEEDS

The only Weeder that has proved a real success and became popular over night. The ladies' real garden friend and the men swear by it. More than a million in use. Prices 75c to \$1.50.

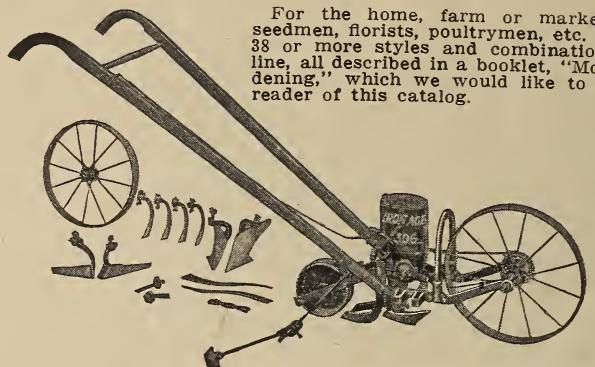


# IRON AGE GARDEN SEED DRILLS AND WHEEL HOES

No. 306

Combined

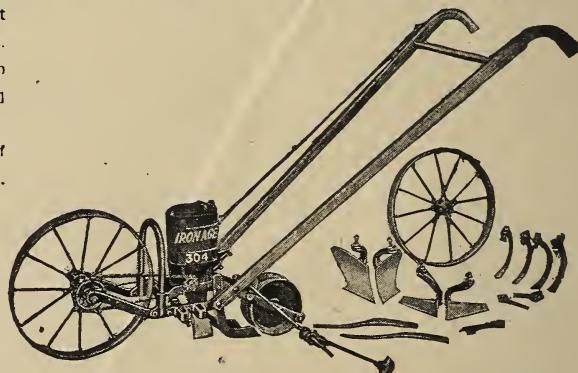
\$20.00



For the home, farm or market garden, seedmen, florists, poultrymen, etc. There are 38 or more styles and combinations in this line, all described in a booklet, "Modern Gardening," which we would like to send each reader of this catalog.

**No. 306 Combined Hill and Drill Seeder, Double and Single Wheel Hoe.** Sows accurately any small garden or flower seed, in continuous rows or in hills, 4 to 24 inches apart, opens its own furrow, covers the seed and rolls it, and marks the next row. Sows where you can see it drop. Adjustable index permits you to sow as thick as your experience tells you is right. The shut-off is connected at the handles, at your finger ends. Includes all cultivating tools shown with it and described under No. 301 Wheel Hoe on the next page.

Packed weight, 57 pounds. If wanted as drill only order as No. 7. See illustration.



**No. 304 Combined Drill Seeder, Double and Single Wheel Hoe** is same as No. 306 except that it is arranged to sow only in continuous rows and it has a different opening plow.

No. 304 Combined, \$19.00

**NEW MODEL SEED DRILL.** Is strongly built and made to sow accurately in continuous rows, any thickness wanted. Opens its own furrow, covers the seed and rolls it. Also marks the next row. Index helps you to set right for sowing. Flow of seed can be cut off instantly. Adjustable marker. Capacity two quarts. Sows all kinds of seed.

Ask for  
special IRON AGE booklets  
giving full descriptions.



New Model Seed Drill, \$14.00

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

# IRON AGE WHEEL HOES

**NO. 301 DOUBLE AND SINGLE WHEEL HOE.** Works a stride or between the rows. Can be changed from double to single wheel in 3 minutes. This is the Wheel Hoe form of No. 306, and will take seeder attachment any time. Price of attachment, \$8.50. The tools include pair each side hoes, plows and rakes, also four steel cultivator teeth, all adjustable on the frame to suit width rows and character of work you are doing. You can open or cover fur-

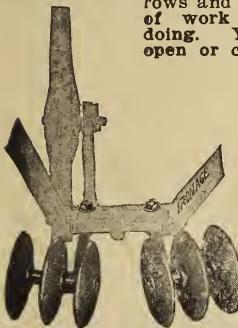


Fig. 369,  
Disc Cultivating  
Attachment,  
\$3.50



No. 301 Double and Single Wheel Hoe, \$12.00

rows, ridge growing crops, cultivate, hoe close to plants without danger to them, pulverize and level the soil, and so forth. Steel frame, 16-inch steel wheel, bicycle style. Adjustable handles. Is pushed ahead a step at a time in a natural way. Sold complete as No. 301 or as No. 303 with side hoes only. Takes Disc Cultivating Attachment, Fig. 369, Landside Plow Attachment, Fig. 82, and many others.



No. 19-C  
\$6.50  
Complete with  
all tools



No. 303,  
With Side  
Hoes only  
PRICE \$8.00

**No. 19-C Wheel Cultivator and Plow**  
Has extra high steel wheel—24 inches—which some seem to prefer. The frame is an all-steel arch in three parts—compact, light, durable. The working tools are attached in position easily and are adjustable. The plow is noted for turning a fine good furrow.

The cultivating tools include Landside Plow, Scuffle Hoe, two separate Cultivator Teeth, Set of Cultivator Teeth on bracket.

**NO. 320 SINGLE WHEEL HOE, CULTIVATOR, ETC.** Will do practically same work as No. 301 except that it is meant to go between rows only. Seed attachment can be used on it if wanted. If wanted with side hoes only, order as No. 321, Price \$6.25.

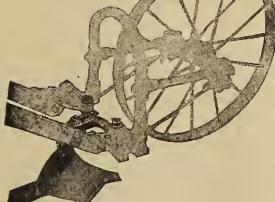
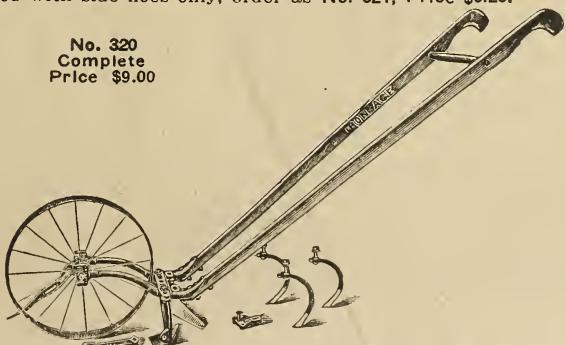


Fig. 82,  
Landside Plow Attachm't,  
\$1.75

No. 320  
Complete  
Price \$9.00



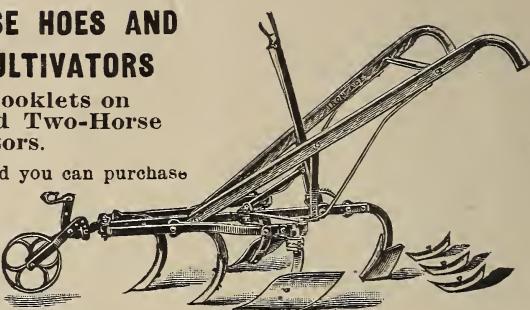
Ask for Iron Age Booklet,  
"MODERN GARDENING"

# IRON AGE

## HORSE HOES AND CULTIVATORS

Ask for complete new booklets on  
Horse Hoes, Harrows and Two-Horse  
Walking Cultivators.

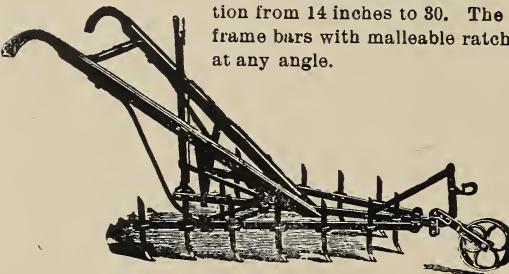
These tools are all made standrd and you can purchase them in their simplest forms and build up to whatever your groud or crops need-with or without lever expander, with lever or plain wheel or without either, etc. Long, high steel frames, make them run steady and clear of trash.



No. 600 E P, \$12.75

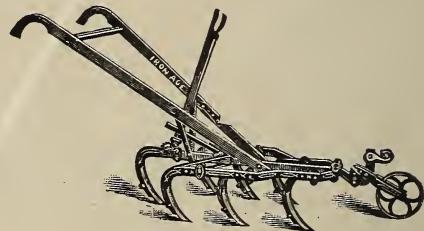
With lever expander and plain wheel.

**No. 600-EP Horse Hoe and Cultivator** has a range of cultivation from 14 inches to 30. The hoe standards are solid steel, attached to the frame bars with malleable ratchet castings that give adjustments to the hoes at any angle.

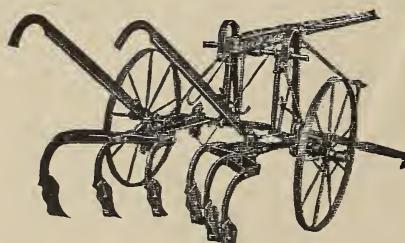


No. 1014 E P, \$12.25

**No. 1014-EP Harrow and Cultivator** carries 14 diamond shaped steelteeth with a small cultivator point forged on one end. It is adjustable for many kinds of crops and may be used as a Harrow or Cultivator. Opens to 34 inches and closes to 11.



No. 1007 E P, \$12.00



No. 976, \$50.00

### Two-Horse Walking Cultivators.

These are balance frame machines that are often used on steep hillsides or in very rough ground.

The gangs shift in parallel lines, the points always face one way and the handles are adjustable to permit the operator to work astride the row or at one side. The wheels are steel and adjustable on the arch from 36 to 48 inch rows. Built with 6 or 8 break pin or spring hoes or with spring teeth.

**ASK FOR IRON AGE BOOKLETS**

Prices subject to change without notice.

# IRON AGE FERTILIZER DISTRIBUTORS

These are for use in gardens or on truck farms.

No. 322 sows the fertilizer and seed at same operation. Opens two separate furrows for fertilizer and covers with soil before opening furrow for the seed. Covers the seed, rolls it and marks the next row. Distributes fertilizer thoroughly and sows the seed with practically the same seeding attachment as on No. 306 Combined. No. 322 can be used for side dressing and includes pair of extra wheels to travel astride the plants.

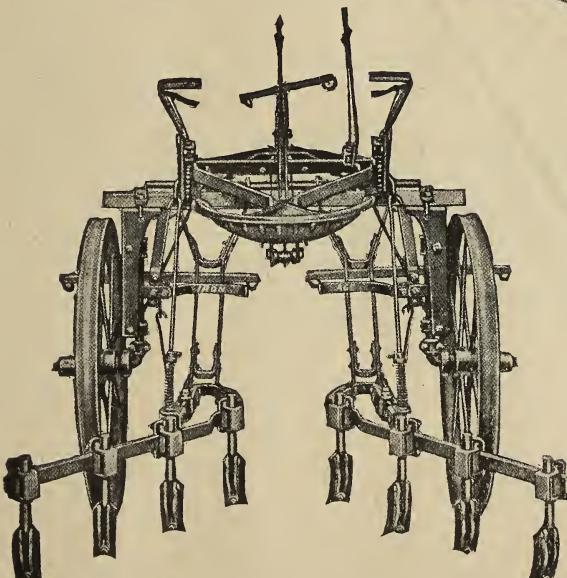
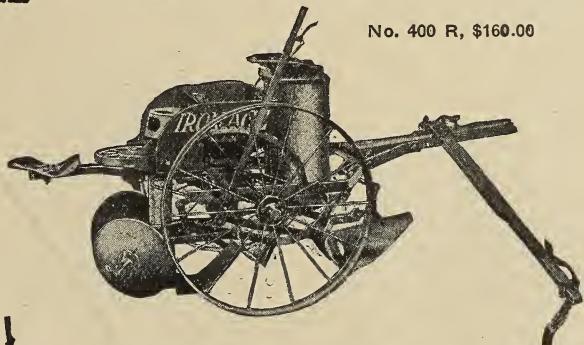


No. 322 Combined Fertilizer Distributor, Hill and Drill Seeder, \$32.00

## IRON AGE POTATO PLANTER

Plants one seed piece in every space and one only. Makes a perfect stand possible and saves at least one bushel of seed per acre. Straight rows, even depth and uniform spacing. Can plant 9 to 24 inches apart. Furnished with or without fertilizer distributor, regular or large size. Also, with seed box extension if wanted. Steel seed box. Steel frame. Choice of four styles of opening

No. 400 R, \$160.00



No. 78—Ball Steel Pivot-Wheel Riding Cultivator, \$68.00.  
No. 76—6-hoe plain, \$65.00

plows. The boy on the back seat pays, for it costs no more to prepare ground, cultivate, fertilize and spray a perfect stand, and every hill missed decreases your yield.

## IRON AGE RIDING CULTIVATORS

All steel frame. Pivot wheels with ball bearings, hinged gangs, steel whiffletrees, double end, reinforced cultivator points, parallel shift so points always face the way you set them, adjustment of points for depth and angle—these make this line of cultivators thorough and accurate, easy to guide, safe in adjustments and they wear well. Furnished with break pin or spring hoes or with spring teeth.

Ask for Special Iron Age Booklets on each line.

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# IRON AGE

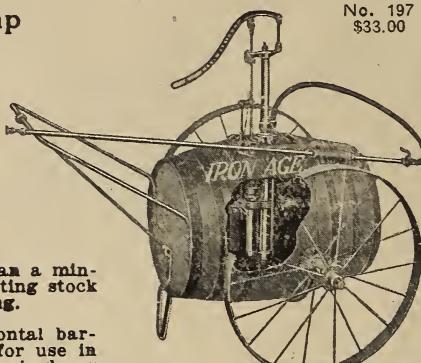
## SPRAYERS For Every Purpose

There are more than 70 combinations suitable for all kinds of spraying, and most of them can be built up on the unit plan so that you can buy what you need now and the balance as you require it.

### No. 192 Bucket Pump

Is made of brass and so put together that anyone can quickly get at any part for cleaning or repairs. Bronze ball valves, candlewick packing, pressed brass nozzle.

No. 197  
\$33.00



**No. 197** is same pump mounted in 20-gallon barrel, on steel wheels, with four feet of steel pipe. Pump is detachable in less than a minute. A good tool for disinfecting stock buildings or any other spraying.

**No. 190** is 50-gallon horizontal barrel rig, mounted for use in any wagon, cart, etc. Pump, single or double acting. Can be built into a 50-gallon power rig or combination hand and power outfit. Automatic mixing of solutions.

No. 192  
Bucket Pump  
\$12.00

20 Gallon  
Barrel Sprayer

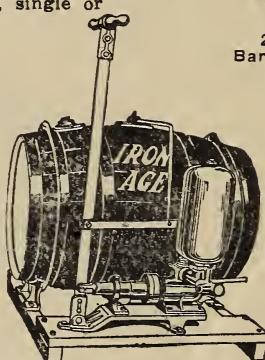
Use in Any Wagon.

Outside Pumps.

Bronze Ball Valves.

Hemp Packing

Easy to Get.



No. 190—50 Gallons  
\$40.00

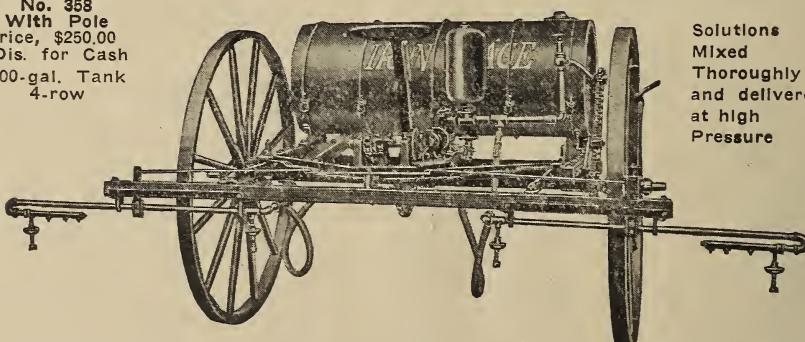
**Fig. 457** shows 4-row attachment for use with No 190 at back of a wagon, in row crops. Intended for small acreage.

Fig. 457  
Four Row Sprayer Attachment  
\$16.50

## TRACTION SPRAYERS For Potatoes and other row crops

No. 358  
With Pole  
Price, \$250.00  
Dis. for Cash  
100-gal. Tank  
4-row

Solutions  
Mixed  
Thoroughly  
and delivered  
at high  
Pressure



The No. 354 Four-Row Traction Sprayer on this page is fitted with this powerful Duplex Pump. This fast-working long-lived machine will deliver spray at a pressure of 150 lbs. or more.

No. 354 Four rows, 55-Gal. Tank; Pole; Duplex Pump; wind shift and nozzle strainers. \$175.00

No. 354S. Same as No. 354 except with shafts instead of pole. \$170.00.  
No. 355 Same as No 354 except with 100-gallon tank \$200.00.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

## LIME AND SULPHUR

Every spring when the buds are swelling, but before they show green at the tips, all your fruit trees, vines, shrubs of every kind should be sprayed with our Lime-Sulphur. Applications made later than this may burn the foliage and cause serious injury. Therefore you should order early and be prepared for the season.

Lime-Sulphur is not a poison and kills only by coming directly in contact with the insect. It does not kill leaf-eating insects. Spray for these with our Pyrox. It's in concentrated solution, always ready for Fall, Winter and Spring use. You simply add spring water and then spray.

1 gal. 75c; 5 gal. \$2.50; 10 gal. \$4.00; barrel lots at special prices.



## PYROX—KILLS AND CURES

Pyrox sticks like paint; kills **all leaf-eating insects**, and **prevents disease** on potatoes, fruit trees, shade trees, and small fruits and vegetables. It serves the purpose for which two mixtures were previously used, and has done so for over ten years. Pyrox is no experiment; it was introduced in 1898.

**It Won't Wash Off.** If it were not for the new growth coming along, as is usually the case with shade trees, fruit trees, shrubs, potato vines, etc., and which of course must be protected, one spraying would be enough for the season. Lb. 45c; 5 lbs. \$2.00; 10 lbs. \$3.50; 25 lbs. \$6.50; 50 lbs. \$11.50; 100 lbs. \$21.00; 300 lbs. \$58.00.

## ARSENATE OF LEAD

In Powder Form

½ lb. package . . . . .	\$ .30	25 lb. package . . . . .	10.50
1 lb. package . . . . .	.50	50 lb. package . . . . .	18.25
2 lb. package . . . . .	1.00	100 lb. package . . . . .	36.00
5 lb. package . . . . .	2.50		

## ARSENATE OF LEAD PASTE (Same as Pyrox) For Caterpillars and Chewing Insects

For spraying trees and shrubs against leaf chewing insects, fruit flies, and codling moth. Contains 15½% Arsenic Oxide, mixes easily in water without clogging nozzle, sticks like paint, kills quick and will not burn foliage. Dilute 1 lb. to 25 gallons. 1 lb. 45c; 5 lbs. \$2.00; 10 lbs. \$3.50; 25 lbs. \$6.50; 50 lbs. \$12.00; 100 lbs. \$21.00.

## INSECTICIDES

Arsenate of Lead, 1 lb. 35c; 5 lbs. \$1.50; 12½ lbs. \$3.50; 25 lbs. \$5.75; 50 lbs. \$10.50; 100 lbs. \$19.00.	Kiltone, modified, 10 lbs. \$2.50.
Aphis Punk.	Lambert's Death-to-Lice, 15c, 30c, 60c, \$1.
Black Leaf 40, price 30c, \$1.00, \$3.25. \$13.75.	London Purple, per lb. 60c.
Black Stuff, Tobacco Powder, per lb. 10c; 10 lbs. 75c.	Jumbo Powder Gun, 60c.
Bordeaux Mixture, powder, per lb. 50c.	Lime and Sulphur, gal. 75c; 5 gal. \$2.50. bbl. lots at special prices.
Bordeaux Mixture, liquid, qt. 65c; gal \$1.75.	Nico-Fume for spraying and vaporizing, ¼ lb. 75c; 1 lb. \$2.00; 4 lbs. \$6.50; 8 lbs. \$11.50.
Bug Death, 1 lb. 20c; 3 lbs. 40c; 5 lbs. 60c; 12½ lbs. \$1.35; 100 lbs. \$8.50.	Nico-Fume Tobacco Paper for fumigating, 24 sheets \$1.25; 144, \$5.00; 288, \$9.50.
Carbolinium, 1 or 2 gals. \$1.45 per gal.; 3 gals. \$1.35 gal; 5 or 10 gals. \$1.25 gal.	Nicoticide, ½ pt., \$1.25; pint, \$2.50.
Cooper's Sheep Dip, pkg. 75c; \$2.50.	Paris Green, ¼ lb. 20c; ½ lb. 35c; 1 lb. 65c.
Cut Worm Killer, 1 lb. 30c; 5 lbs. \$1.50; 25 lbs. \$5.00.	Persian Insect Powder, per lb. \$1.25.
Eureka Fumigator, \$1.75.	Scalecide, 1 qt. 65c; 1 gal. \$1.65; 5 gal. \$6.50.
Eureka Weed Killer, per gal. can, \$1.75.	Slug Shot, 1 lb. carton 15c; 5 lbs. 50c.
Fir Tree Oil Soap, per pkg. 35c.	Sulpho Tobacco Soap, 15c and 25c.
Fir Tree Oil, ½ pint, 75c; pint, \$1.00.	Sticky Banding, 1 lb. 60c; 5 lbs. \$2.75.
Grape Dust, 5 lbs. 75c.	Tanglefoot, 1 lb. 60c; 3 lbs. \$1.75; 10 lbs. \$5.00.
Grafting Wax, ¼ lb. 15c; ½ lb. 25c; 1 lb. 40c.	Tobacco Stems, lb. 5c; per bale \$3.50
Hellebore, ¼ lb. 25c; ½ lb. 35c; 1 lb. 65c.	Tobacco Stems, lb. 5c; per bale, \$2.50.
Kerosene Emulsion, pt. 40c; qt. 75c; ½ gal. \$1.75.	Weedicide, per gallon, \$1.75.
	Fish Oil Soap, 1 lb. 35c.
	Fish Oil Soap and Tobacco, 1 lb. 25c; 5 lbs. \$1.00.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

## AUTO-SPRAY NO. 1

### Capacity About 4 Gallons



Auto-Spray No. 1  
Figure No. 492

This is the strongest and simplest compressed air sprayer on the market.

More than 300,000 are in use and it has never failed to please our trade during the years we have sold it.

It is used to spray vines, shrubs, trees, potatoes, also for applying disinfectants and whitewash in buildings.

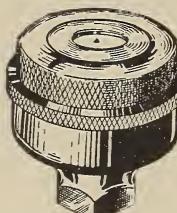
It is made with galvanized or brass reservoir, as ordered. (We recommend the brass because not affected by strong chemicals.)

**GUARANTEE**—We agree to refund purchase price to any dissatisfied customer within ten days.

### NET CASH PRICES

Auto-Spray No. 1-B, brass tank.....	\$11.50
Auto-Spray No. 1-D, galvanized tank.....	9.00
2-ft. Brass Extension for trees and low down work.....	.60
Brass Elbow to spray under side of leaves.....	.40
Brass Strainer for filling.....	1.50

## NON-CLOG ATOMIC NOZZLE



Non-Clog Atomic  
Figure No. 398

This nozzle is what its name implies. It is the only nozzle made which does not and cannot clog.

It may be adjusted for wide or narrow spread of spray and for long distance or near-by work.

We warrant this nozzle and will refund purchase price within ten days to any customer who is not more than pleased.

We repeat **IT DOES NOT CLOG**. One user said the NON-CLOG was worth \$10.00 to him.

**PRICE**—Brass, straight or 45 degrees.....\$1.50

## AUTO-SPRAY NO. 40

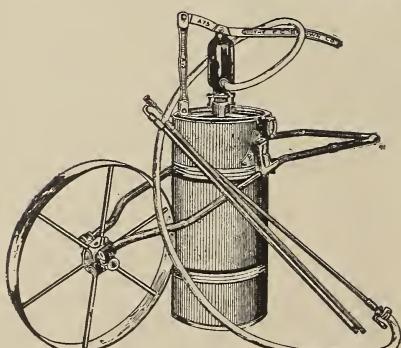
### A General Purpose Sprayer

Made in two sizes, either galvanized or brass tank and with or without truck.

The pump is powerful, has brass working parts and ball valve, an ample agitator cleans suction screen in operation and mounted on truck with 20-inch wheel, is easily portable on soft ground.

Each machine is equipped with 8 feet of  $\frac{3}{8}$ -inch high grade hose, 8 feet of iron extension pipe, lever shut-off and nozzle.

The Auto-Spray No. 40 is adapted to both large and small work and will spray a tree as well as the largest sprayers made. It is largely used for whitewashing and in greenhouses.



Auto-Spray No. 40  
Figure No. 426

### PRICES

Auto-Spray No. 40-A—Brass tank, capacity 8 gallons, no truck.....	\$33.00
Auto-Spray No. 40-B—Galvanized tank, capacity 8 gallons, no truck.....	28.00
Auto-Spray No. 40-C—Brass tank, capacity 12 gallons, with truck 20-in. wheel..	41.50
Auto-Spray No. 40-D—Galvanized tank, capacity 12 gals., with truck 20-in. wheel	33.00

## SLUG SHOT

It is a light, composite, impalpably fine powder, easily distributed by Duster, Bellows, or in water by spraying. It is thoroughly reliable in killing Currant Worms, Potato Bugs, Cabbage Worms, Lice, Slugs, Sow Bugs, etc., and is also strongly impregnated with fungicides.



## Protexol or Carbolinium

Insecticide and Wood Preserver

1 gallon.....	\$1.45
5 gallons, per gal.....	1.35
10 gallons, per gal.....	1.25

Special prices for larger quantities.



A wonderful invention. Light, swift, safe, strong and cheap. Dusts the pure green. Kills all the bugs and pests without injuring the vines or foliage. Less green used and better results obtained.

The Champion, \$15.00; Little Giant, \$11.00

## Remedy for Cut Worms on Cabbages and Tomatoes

Soak bran with Paris green and scatter same in the rows. This will destroy this troublesome pest.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

## SULPHO-TOBACCO SOAP



Quickly exterminates all insect life on plants or flowers in and out of doors. Unsurpassed for rose bushes. For a cheap, effective, clean and harmless Insecticide this is unequalled. It also acts as a valuable fertilizer reviving plant life. For domestic purposes it rids the house of cockroaches, and is a superior wash for dogs and all animals. Prevents poultry lice. You cannot afford to be without this popular and well known Insecticide, if you desire to be successful in plant culture. A trial will give highly gratifying results.

3-oz. Cake, sufficient for 1½ gallons prepared solution, 20c; mailed postpaid 24c.

8-oz. Cake, sufficient for 4 gallons prepared solution, 30c; mailed postpaid 35c.

With every order we enclose free a booklet "the Window Garden," giving valuable information of Plants, and exterminating of Insects.

## BUG DEATH

Contains No Paris Green or

Arsenic



This Insecticide has been on the market for over twenty years. While the first cost to kill the bugs on an acre of potatoes is rather more than the arsenical Insecticides, the extra yield of marketable potatoes has more than paid the entire expense. It is non-poisonous, which makes it perfectly safe to use on all plants or vines.

Put up in packages as follows:

1-lb. package (sifter top).....	\$ .25
3-lb. package.....	.40
5-lb. package.....	.60
12½-lb. package.....	1.35
100-lb. package.....	8.50
Dickey Bug Death Duster.....	.50
B-D Sifter.....	.75

IT STICKS; IT STAYS; KILLS BUGS, AND PAYS

## To Destroy Ants in Hills, Etc.

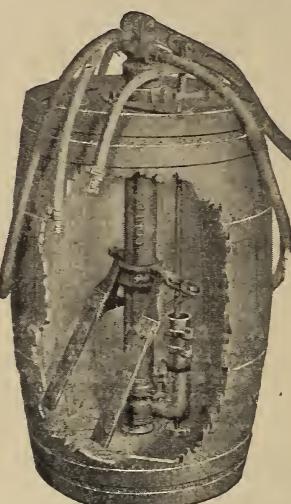
Inject bisulphate of carbon in the hills. This will destroy them promptly.

# GOULDS HAND SPRAYERS

## POMONA—FRUITALL—BORDEAUX



Goulds' "Fruitall"  
Barrel Sprayer



Goulds' "Pomona"  
Barrel Sprayer



Goulds' "Bordeaux"  
Brass Bucket Sprayer

**The "Fruitall"** is extremely simple in design, of smaller capacity and lighter weight than the "Pomona." It will supply two leads of hose and two nozzles. All working parts, including plunger, gland, valves, valve seats and strainer are of BRONZE. A wing agitator is used, similar to that on the "Pomona."

**The "Pomona"** is an extra high grade barrel sprayer with sufficient capacity to supply two leads of hose and four nozzles. The plunger, plunger connection, gland, valves, valve seats, and strainer body are solid bronze. The plunger is 2½ inches in diameter and is outside packed, so that it is not necessary to take the pump apart to re-pack it. The air chamber is extra large, 3 x 30 inches, making it easy to maintain high pressure. The agitator is operated by the pump lever and keeps the solution well mixed.

**The "Bordeaux"** is a brass pump for garden or greenhouse work. It is fitted with Brass Ball Valves which are proof against the action of acids and oils. Pump is intended to rest in pail, with Malleable Iron Foothold outside.

All of the above pumps are also suitable for handling Whitewash and Cold Water Paint.

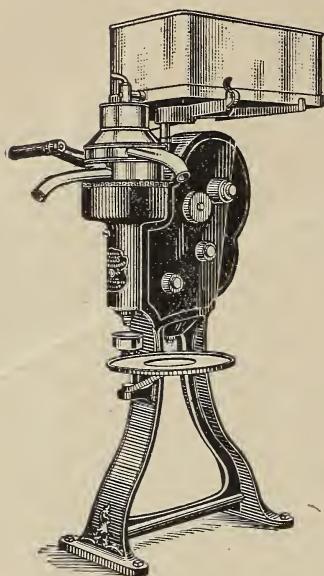
<b>"Pomona"</b>	Outfit "C," Pump fitted with agitator and one lead, 15 feet, $\frac{3}{8}$ -inch discharge hose with Mistry Jr. spray nozzle. Mounted on end of barrel.	<b>Price \$42.00</b>
<b>"Pomona"</b>	Outfit "D," Pump fitted with agitator and two leads, 15 feet each, $\frac{3}{8}$ -inch discharge hose with Mistry Jr. spray nozzles. Mounted on end of barrel.	<b>Price \$48.75</b>
<b>"Fruitall"</b>	Outfit "C," Pump fitted with agitator and one lead, 15 feet, $\frac{3}{8}$ -inch discharge hose with Mistry Jr. spray nozzle. Mounted on end of barrel.	<b>Price \$31.25</b>
<b>"Fruitall"</b>	Outfit "D," Pump fitted with agitator and two leads, 15 feet each, $\frac{3}{8}$ -inch discharge hose with Mistry Jr. spray nozzles. Mounted on end of barrel.	<b>Price \$38.00</b>
<b>"Bordeaux"</b>	With 3 feet of $\frac{3}{8}$ -inch discharge hose and Fig. 81 "Seneca" Nozzle.	<b>Price \$7.50</b>

Prices subject to change without notice.



## UNITED STATES CREAM SEPARATORS

To enlarge the income from your dairy you must install modern equipment, such as the United States Cream Separator.



## UNITED STATES CREAM SEPARATORS

### America's Best Plus Denmark's Best

The attention of dairymen everywhere is called to the new "U. S." Disc Bowl—an important addition to the "U. S." Cream Separator line, of exceptional interest to thousands of dairymen who prefer a disc type skimming device. The new "U. S." Separator is continued the same famous "U. S." construction, time tested for a score and more years—never radically changed—best without question; to which superior construction a new Disc Bowl of surprising efficiency is added. It is not, therefore, the "U. S." Cream Separator as a whole that calls for an introduction; it is an important improvement.

No. 30, guaranteed capacity 200 lbs.....	\$ 70.00
No. 29, guaranteed capacity 300 lbs.....	80.00
No. 28, guaranteed capacity 350 lbs.....	95.00
No. 27, guaranteed capacity 500 lbs.....	110.00
No. 25, guaranteed capacity 750 lbs.....	125.00
No. 24, guaranteed capacity 1000 lbs.....	140.00
No. 22, guaranteed capacity 1350 lbs.....	210.00

A U. S. Cream Separator will make you the most money, because it skims the closest. It holds the World's Record for closest skimming in fifty consecutive runs with milk from ten different breeds of cows.

## POWER ATTACHMENTS

Clutch Pulley, 12 in. diameter, 3 in. face, including shaft for crank.....	\$ 4.50
With additional Loose Pulley, extra.....	3.50
16 in. Groove Pulley.....	6.00
Self Governing Pulley .....	15.00
For Engine or Line Shaft only (give size of shaft).	
Speed Governing Pulley, adjustable while running.....	18.00
Pump back, with sub base.....	9.50

## SPECIAL ELECTRIC MOTORS CONNECTED TO U. S. SEPARATORS

Alternating Current, 110-volt, 60-cycle.	
For Separators Nos. 27 and 28.....	(Extra) \$50.00
For Separators Nos. 22, 24 and 25.....	(Extra) 55.00
Direct Current, 110 Volts	
For Separators Nos. 27 and 28.....	(Extra) 45.00
For Separators Nos. 22, 24 and 25.....	(Extra) 50.00
Direct Current, 32 Volts	
For Separators Nos. 22, 24, 25, 27 and 28.....	(Extra) 55.00
1/4 H. P. Motor, Back Geared, on Tripod.....	60.00
Motors other than above specifications.....	(Extra) 60.00

NOTE—Alternating and direct current motors are NOT interchangeable. Ask your electrician for complete specifications before ordering.

WE OFFER SPECIAL DISCOUNTS ON CREAM SEPARATORS

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

## MILKMEN AND DAIRY SUPPLIES.

Quart Milk Bottles, per doz.....	\$1.10	Strainer Pails.....	1.50
Quart Milk Bottles, per gross.....	11.00	Pint Dippers.....	.75
Pint Milk Bottles, per doz.....	.90	Quart Dippers.....	.90
Pint Milk Bottles, per gross.....	10.00	Strainers .....	\$2.50 to 2.75
Half Pint Milk Bottles, per doz.....	.85	Tin Milk Pails, per doz.....	7.00 to 9.00
Half Pint Milk Bottles, per gross.....	9.50	Tin Milk Pails, all sizes.....	.75c to 2.75
Milk Cans, 50-quart.....	9.50	Sprinkling Pots, all sizes.....	.60c to 2.50
Milk Cans, 40-quart.....	8.50	Excelsior Strainers.....	.275
Milk Cans, 30-quart.....	8.00	"Our Own" Strainers.....	2.50
Milk Cans, 20-quart.....	7.00	Aerators .....	11.00 to 15.00
Milk Caps, per 1000.....	.65	Sap Buckets at.....	.90
Wholesale Cans.....	\$1.50	Sap Spouts at.....	.08 and .10

## LISK'S SANITARY PAIL

This Sanitary Pail combines nearly all of the good points that are contained in the many kinds put on the market in recent years, and is highly recommended by the Boards of Health and the State Milk Inspectors. A trial will convince. Price \$2.75.

MILK FEVER OUTFIT.  
For Sterilized Air Treatment.

This treatment has cured 97 per cent. of all cases treated. This treatment is recommended by the Bureau of Animal Industry, United States Government, Department of Agriculture.

The outfit consists of the instrument, a roll of tape, a package of carbolized cotton. Full directions, neatly packed. Price, \$3.50 net.

## MILKING TUBES.

PILLING'S PATENT



Full directions with each tube. 75c to \$1.50 each  
The Boston Milking Tube, 35c.

## SCALES.

Dairy Scales \$4.00 to \$4.50. Platform Scales \$25.00 to \$35.00

## RICE'S CALF, WEAVER AND SUCKING COW MUZZLE.

For preventing Calves and Cows sucking themselves or each other.

No. 1.—For Calves till 1 year old, 70c, by mail postpaid 75c.  
No. 2—From 1 to 2 years old, \$1.00, by mail postpaid, \$1.05.  
No. 3—For full grown animals and self suckers, \$1.25, by mail postpaid, \$1.30.



## MILK BOTTLES

1 quart.....\$1.10 per doz  
1 pint..... .90 per doz  
1/2 pint..... .85 per doz  
Special price in gross to

No. 0—4	gallon, will churn	2 gallons.....	\$ 8.00
No. 1—10	gallon, will churn	5 gallons.....	9.00
No. 2—15	gallon, will churn	8 gallons.....	10.00
No. 3—20	gallons, will churn	10 gallons.....	11.00
No. 4—25	gallon, will churn	12 gallons.....	14.00
No. 5—30	gallon, will churn	14 gallons.....	15.00

Oak Dash Churns, Stone Dash Churns, Dog Powers, Butter Workers, Skimmers, Butter Carriers, Ladies, Richardson's Butter Color, Butter Prints, Floating Glass Thermometers, Dairy Thermometers, Cream Gauges, Babcock Butter Tester.

## MILK CAPS.

Per thousand, 50 to :

PRES SUBJECT TO CHANGE WITHOUT NOTICE



## CHAMPION MILK COOLER AERATOR

Automatic, Simple, Efficient, Durable.



2-18 quarts, 10 to 25 cows, 3 milkers. \$10.00  
3-34 quarts, 25 to 50 cows, 5 milkers. 12.00  
4-52 quarts, 50 to 100 cows, 8 milkers. 15.00

## SENSIBLE BOTTLE FILLER



We have built the Sensible so strong and heavy that it will last a life time. You can find no more sensible way to fill your bottles. Price \$8.00.

## SAVES THE MILK



## SAVES THE CALVES



## SAVES YOU MONEY

*Ryder's*  
RICHEST

*Cream*  
SUBSTITUTE

*Calf Meal*  
FOR  
MILK

Will take the place of whole milk in either raising or vealing calves, at about one-third the cost of feeding milk. It is the only correct combination of materials to nourish calves properly with all the fibre and indigestible matter removed, thoroughly cooked and prepared for easy digestion and assimilation. Made with the care of baby food. Safe for baby calves.

Francis M. Jones of Clinton, N. Y., writes: "I can recommend Cream Calf Meal as the best calf meal I have ever used."

THE MILK IT SAVES IS WORTH THREE TIMES ITS COST.

100-lb Bags

50-lb. Bags

25-lb. Bags

PRICES ON APPLICATION

## FERTILIZERS

	Analysis	Ton
OATS, BARLEY, WHEAT, CORN.....	11-0	\$50.00
Corn and Grains.....	19-1	54.00
Corn and Grains .....	28-3	59.00
Onions, Celery Potatoes .....	39-5	71.00
Potatoes and Root Crops.....	48-4	72.00
Cabbage .....	1 $\frac{1}{2}$ -0	49.00
Acid Phosphate.....	16	40.00

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

# BLATCHFORD'S CALF MEAL

## *The Complete Milk-Equal*



*Good to the last drop*

Sold in 100, 50 and  
25-pound bags

is in reality a substitute for milk—and should not be considered as an ordinary "feed" or "meal."

It contains all the elements of milk—a "baby food" for calves.

It is absolutely the *only* milk-substitute that contains in proper proportion the elements necessary for rapid and healthy growth, and the only calf meal that is thoroughly cooked and prepared for easy digestion.

100 pounds make 100 gallons of Complete Milk-Equal

### From Sow to Pasture

Wean your little pigs easily, safely and cheaply on



#### Blatchford's Pig Meal

A "self-starter" that gets the little fellows started right. Develops big bone and assures vitality. Keeps them growing all the time. Saves the sow. Replaces milk. The Safety Route from Pighood to Porkage.

In 100, 50 and 25-pound bags

### Blatchford's Milk Mash

should be every chick's first feed!



Sold in 100 and 25-pound bags and in  
4-pound trial cartons

Prevents bowel trouble, leg weakness and white diarrhea. Carries them safely through the dangerous first three months.

Raises 95% of every hatch!  
Five pounds per chick will do it.  
Crows—Matures  
Fattens

Blatchford's "Fill-the-Basket" Egg Mash fed to your pullets when three months old will make early layers and keep them in perfect health.

Does not force or fatten. Feed it to all your hens.

Make your egg profits sure  
Sold in 100 and 25-pound bags

ASK FOR PRICES

## EVERY HOG A MONEY MAKER

Keep your hogs free from worms. These deadly pests will rob you of your profits—starve your stock—make them thin, scrawny and finally kill. If you follow the advice of the best stockmen, you will have

### NO MORE LOSSES FROM WORMS

E. C. Stone, Sec. of the American Hampshire Swine Record Assn. says: "I know of nothing so good, reliable and cheap to expel worms and put hogs in condition to digest food as Sal-Vet."

TRADE MARK

# SAL-VET

REG. U. S. PAT. OFF.

is a medicated salt—different from all other worm remedies. Safe, sure to kill worms, tones up your stock, helps turn food into fat and flesh quickly, puts animals in prime condition to get top-market prices. Commence getting rid of robber worms today. Use Sal-Vet—costs but 1-12 cent per day, per hog or sheep.

FOR SALE BY

F. H. Ebeling

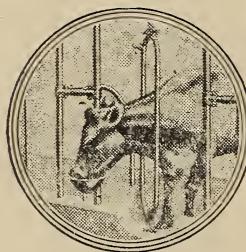
5-lb. Pkg. 70c.

Each 15-lb. drum.....	\$ 1.65	Each 100-lb. keg .....	\$ 7.50
Each 20-lb. drum .....	2.25	Each 200-lb. bbl. ....	13.50
Each 40-lb. drum .....	3.60	Each 300-lb. bbl. ....	18.00

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

# LOUDEN

## Barn Equipment Saves Labor



### Louden Products

Hay Tools  
Steel Stalls  
Steel Stanchions  
Steel Pens  
Water Bowls  
Feed and Litter Carriers  
Barn Door Hangers  
Power Hoists  
Cupolas and Ventilators

### REDUCE BARN WORK— INCREASE MILK YIELD

These are the two big essentials to profitable dairying, and Louden Labor Saving Barn Equipment will help you do both.

Barns equipped with Louden Tubular Steel Stalls and Stanchions, and Pens are very easily kept clean. There are no cracks or crevices where dirt can collect, nor pipes or bars for it to gather under. There is real "Pasture Comfort" for the cows in Louden Stanchions. They can comfortably assume a natural position—just as if they were in the pasture.

Louden Detachable Water Bowls permit the animals to drink plenty of water at any time. This method of watering is especially desirable in the winter months.

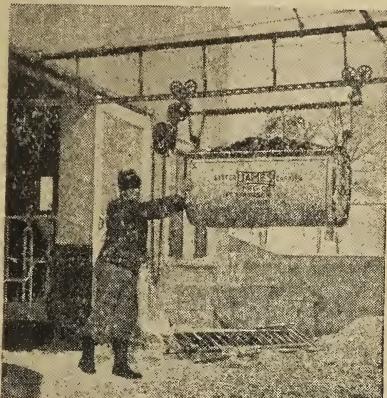
Much time and labor can be saved in barn cleaning by using Louden Litter Carriers. They take the drudgery out of barn cleaning.

Every bit of Louden Barn Equipment is of the highest quality. Any size barn fully equipped. Special booklets can be furnished on any Louden Products.

**"Everything for the Barn"**

## THE JAMES WAY James Watering Buckets

Every dairymen now realizes that regardless of how well the cow may be fed and cared for in every other way, the maximum yield of milk cannot be secured unless she has plenty of water. The old way of watering once a day out in the yard is the most expensive that could be devised. The cows become very thirsty, and drinking excessively of cold water, become chilled, and are forced to use up energy getting warm that should have been used in making milk. But the increase of milk yield is not the only advantage. There is also the saving of time and labor of the attendants, and, as compared with other methods of watering in the barn, a saving of water. More important is the prevention of the spreading of contagious diseases through the water, for with the James Watering Buckets each cow is furnished pure, fresh water, direct from the protected supply tank.



## THE JAMES CARRIERS

James Carriers are "long life" carriers—built to stand the strain and wear of years—made to forestall breakages and repairs—made to save the maximum amount of work and time. We are proud of them, believing that each is the best that can be built to meet the specific purposes for which it is designed. And in this belief, we are backed up by hundreds of enthusiastic, commendatory letters.

## Stanchions, Stalls, Litter Carriers, Water Buckets

This line is made by the firm of Glor Bros. & Willis, who have supplied this section with many outfits, and which have proven very practical and satisfactory to the users.

Prices will be given upon application.

## "THE NEW MODERN" LITTER AND FEED CARRIERS

New Modern Sanitary Stalls and Stanchions are the most practical and up-to-date time, money and labor saving fixtures on the market. Should be in every stable. Soon pay for themselves. All our goods are made of the very best material by workmen who take pride in their work. With ordinary usage they will last a life time. Carriers equipped with Crank and endless chain life.

### "NEW MODERN" BARN EQUIPMENT

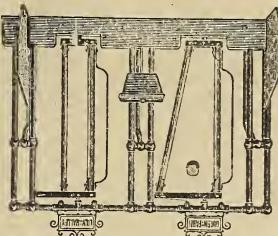
Sanitary Steel Stalls; Wood and Steel Stanchions, Chain or Swivel Hung; Water Basins with Covers, Stable Ventilators, Partitions, Bull and Calf Pens, Adjustable Steel Gates, Manger also Testing Stalls.

#### Some Patrons Say:

"Shall install in other buildings." "Most labor-saving machine on the farm." "See none other I like so well." "Don't see how we got along without it."

#### FREE PLANS, ESTIMATE AND CATALOG

Send us a rough sketch of the layout of your barn and we will send you free plan and estimate of our Stable Equipment



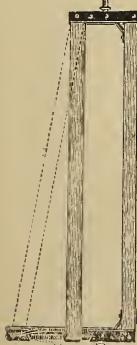
## STANCHION

Saving of time and cow-comfort mean bigger profits. Know that your cows are held securely without annoyance to you or to them—in

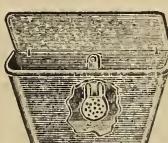
### NEW MODERN

Stanchions—wood or steel—chain or pivot hung. Extension bars prevent side entrance. Latch hold Stanchion in position when open. Perfect freedom of head.

Let us send you free catalog on our Stanchions, Litter and Feed Carriers, Water Basins and other "New Modern" stable equipment.

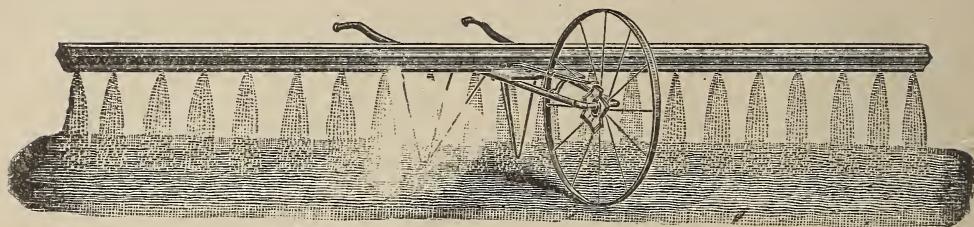


## "New Modern" Watering Basin



All dairymen say that cows supplied with fresh water give 5 to 10 per cent more milk. Therefore our watering device (Basins, Pipe Line and Float Tank) is a Profitable Investment. Made of cast iron with round corners and smoothed bottom. Galvanized Iron Cover. Thoroughly coated. Our "New Modern" Swing Stanchion, with our watering device is the most up-to-date outfit on the market. Write for Free Catalog.

## WHEELBARROW SEEDERS



WITH WOOD OR IRON FRAME.

They can be worked by anyone who can run a wheelbarrow,  
Price, 14-foot, \$14.00; 16-foot, \$15.00.

## THE CYCLONE SEED SOWER

This is the cheapest Crank Seeder on the market, and equal to the best for quality of work it does and durability. Don't pay \$5.00 for a seeder when you can get its equal for less money.

Will sow Wheat, Oats, Rice, Flax, Millet, Turnip Seed, Cover Seed, Grass Seed, including Light grasses; in fact any kind of Seed broadcast. Also Plaster, Fertilizer, Salt, Ashes, etc.

They save one-third seed and two-thirds labor.

CRANK SEEDERS - - - - \$3.00



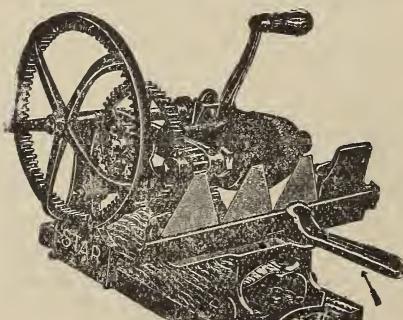
## THE "REX" RIVETER



## THE BEST.

The cheapest, most durable and the most Practical Riveting Machine on the market.

Price 1.50



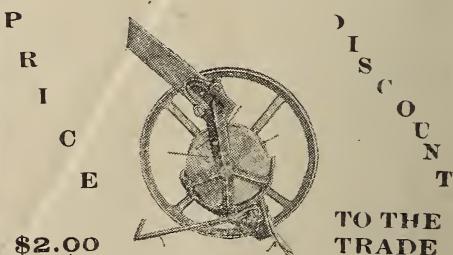
SICKLE GRINDER, \$8.00

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

## Eureka Kitchen Garden and Hot Bed Seed Drill

It will sow and cover Beets, Cabbage, Carrots, Celery, Lettuce, Onions, Radishes, Spinach, Turnips, and all such seeds with the greatest regularity. Force Feed. It is only intended for small Gardens and Hot Houses.

Sows up close to the sides in straight rows. Sows the small packet of seed as well as a larger bulk. This Drill is not a toy, but a strong, practical machine that will last many years.

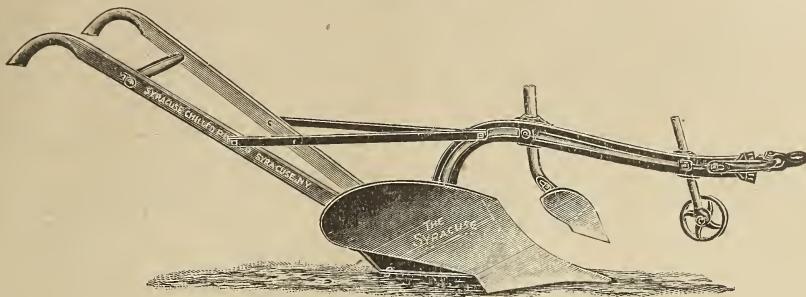


\$2.00

TO THE TRADE

## SYRACUSE CHILLED PLOWS

### Steel Beam



Made in Three Sizes—Nos. 401, 402 and 403

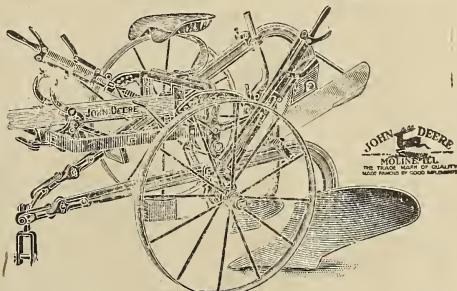
Syracuse chilled plows are regarded as the highest-grade chilled plows made. They are steady running, easily handled and have superior turning qualities.

With the detachable shin piece—a sharp cutting edge easily can be maintained at small cost.

These are the plows with the perfect fitting shares—and extra Syracuse shares always fit. No. 401 cuts furrow 12 to 15 inches wide, 5 to 8 inches deep. Price.....\$26.00  
No. 402 cuts furrow 11 to 13 inches wide, 5 to 7 inches deep. Price.....25.00  
No. 403 cuts furrow 9 to 12 inches wide, 4 to 6 inches deep. Price.....24.00

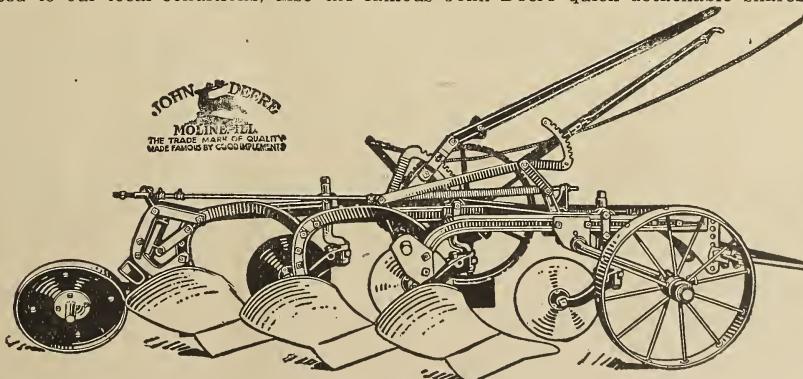
## JOHN DEERE TWO-WAY SULKY PLOW

Just the plow you need for work on hill-sides as well as on level fields and in stony land. Wide tread prevents tipping. Each bottom is independent of the other, with separate depth adjusting lever and lifting device. Horse lift. Patented automatic foot frame shift makes it easy to regulate width of furrow and plow around curves. Clevis is always ahead of the working bottom. Adjustable jointers, with no hole through the beam to weaken it. Your choice of four types of bottoms. Price, \$86.00.



## JOHN DEERE NO. 5 TRACTOR PLOW

For use with any standard tractor—the hitch is easily adjustable. Furnished with either two or three bottoms. High and level power lift—a simple raising and lowering device operated by a rope from the tractor. Self-locking rear wheels makes it possible to back the plow. All steel and malleable construction; beams are guaranteed not to bend or break; plenty of clearance under the beams. Equipped with John Deere bottoms especially adapted to our local conditions, also the famous John Deere quick-detachable shares.



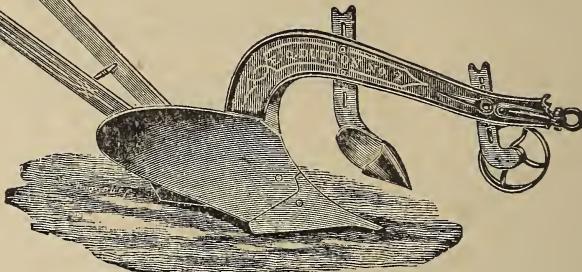
ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

# Dutton Steel and Chilled Plows

DUTTON IRON BEAM NO. 2, \$22.00

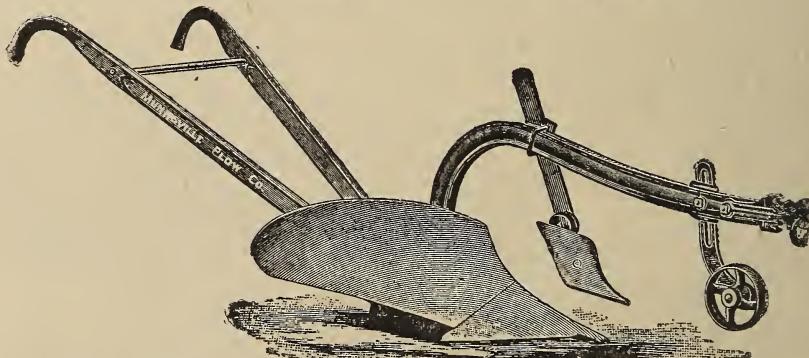
" STEEL " " 24.00

THE BEST  
LOW PRICED  
PLOW  
ON THE  
MARKET.



## MUNNSVILLE PLOWS

No. 10, All Steel Plow—"The Big Seller"



This Plow is long on the run with a high moldboard, of a shape that insures easy draft, good cleaning qualities and pleasing appearance. Price \$25.00.

Munnsville No. 46—Chilled Plow, \$24.00.

Munnsville No. 7—One-horse Plow, \$18.00.

## Bargains in Tools and Implements

We offer at an especially low price the following list of tools and implements—every one of which is a genuine bargain and can be seen at our warehouse. Some of these have been somewhat used.

1 Ridging Roller	1 Renfrew Portable Weighing Scale on wheels, \$75.00.
1 Darnell Furrower & Marker	1 John Deere Farm Wagon
1 Dray Cart, Ball-bearing	7 Barrel Spray Pumps
1 Dray Cart, not ball-bearing	2 Hurst 4-Row sprayers
1 Covered Cutter	1 Hoosier 2-horse Corn Planter (used once)
1 Top Buggy	1 Perry Spring Tooth Harrow (Wood frame)
1 Family Carriage	1 Clarks Cutaway Harrow A-4
1 Keystone Weeder	1 Clarks Cutaway Harrow A-5
1 Standard S. T. Harrow, 15-Tooth	1 Clarks Cutaway Harrow A-6
1 60-Tooth Peg Harrow	2 Steel Land Rollers
1 3-horse Gas Engine	2 Bullard Hay Tedders
1 Waterloo Big Boy Engine (used only once—a bargain)	

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

# Clark

"CUTAWAY"

## DOUBLE ACTION DISC HARROW

The farmer who realizes the importance of stirring and pulverizing the soil so that the sun and air and moisture can reach every particle is the man to whom the CLARK'S CUTAWAY Double Action—the original double action—means something more than just a disk harrow. No other disk harrow of any make or style even approaches the CLARK'S CUTAWAY Double Action for pulverizing the soil, for saving time, for saving horses, for giving long service. Its superiority for pulverizing the soil and giving long service has seldom been questioned.

The rigid main frame is the all-important feature in any double acting harrow. This frame holds the rear gangs so that the rear disks cannot slew to the furrows cut by the fore disks, but instead cut midway between where the fore disks have cut, thereby making the machine pulverize every inch of the soil to the full depth to which the disks run.

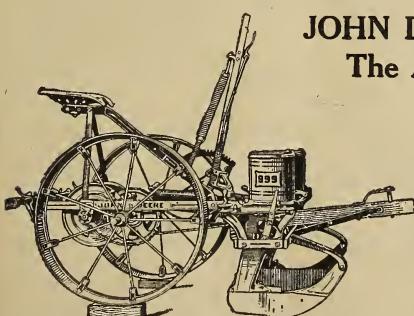
The distance from the hitch to the extreme rear end of the harrow is but a little more than one-half of that on the tandem or trailing harrows, which fact makes the draft from 25 to 50 per cent. less than in other harrows of corresponding size. By the elimination of the tongue truck we save the buyer from \$5.00 to \$6.00.



A-4 Double Action Cutaway, 2-horse hitch.....	\$68.00
A-5 Double Action Cutaway, 4-horse hitch.....	80.00
A-6 Double Action Cutaway, 4-horse hitch.....	98.00
Bush and Bog Plow.....	105.00
Clark's Grove Harrow, 10—14- disks.....	30.00

## JOHN DEERE No. 999 CORN PLANTER

### The Accurate "Natural Drop" Planter



use and both can be operated at the same variety of seeds. Price \$102.00 complete.

Field tests under varying conditions have proved conclusively that the John Deere No. 999 Planter is accurate. It is equipped with John Deere Natural Cell Fill, edge-delivery seed plates, so shaped that one kernel enters each cell without fail and the desired number is dropped in the hill. Change in drop to 2, 3 or 4 kernels per hill can be made instantly without stopping the team, and drill distances can be varied just as easily. Quick change hillling to drilling and back to hillling. Ask us to show you the entirely enclosed gear arrangement, and the convenient underhung reel. Fertilizer or pea attachment, or both, can be furnished for time corn is planted. Special plates for a great Less Fertilizer attachment, \$80.00.

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## THE KEYSTONE ADJUSTABLE FLAT-TOOTH WEEDER

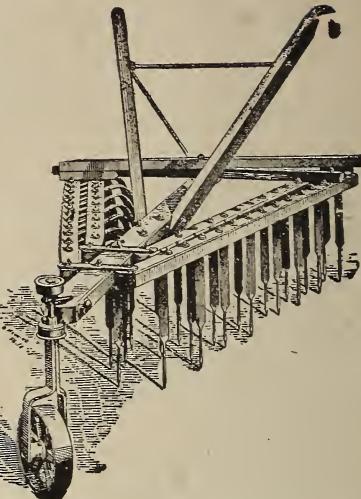
(The Keystone Adjustable Flat-Tooth Weeder narrowed to 30 inches.)

This is the most useful and practical Weeder of the many Weeders on the market. Every gardener and farmer should have one.

Weight, 97 Pounds

Price \$20.00

Can be expanded to 7½ feet if desired.



## ACME PULVERIZING HARROW AND CULTIVATOR

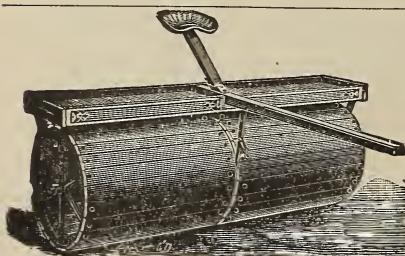
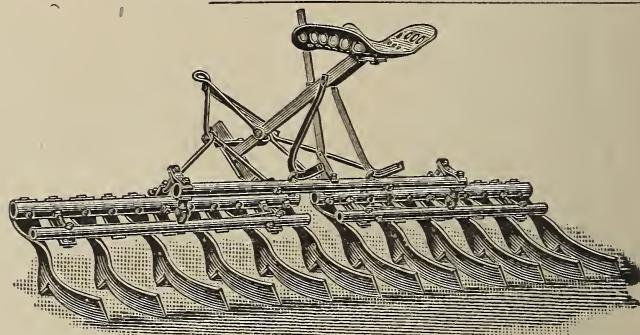
### STANDARD 2-ROW RIDING HARROW

Lightest Riding Harrow sold anywhere. Low in price, light in draft, most easily handled.

Cuts, crushes, turns, smooths and levels, all in one operation.

6 ft. 6 in. Two Horse Size.

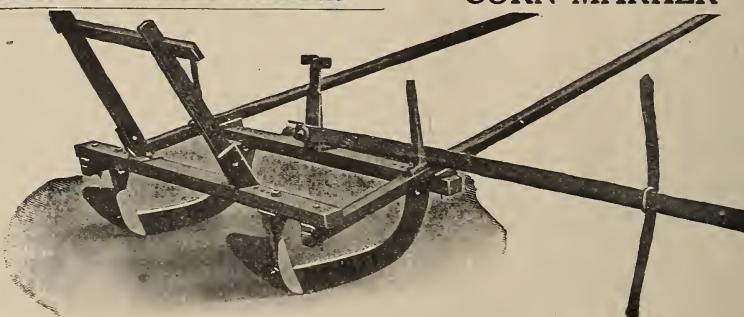
PRICE \$30.00



### LAND ROLLERS

Steel Roller, 24 inch, two sections with closed ends.....\$55.00  
Lawn and Garden Roller.....\$12.00 to \$16.00  
These Rollers are made of the best material and made near home. All parts can be easily supplied

## THE IMPROVED THREE-ROW CORN MARKER



This cut shows our Steel Wing Marker. It is adjustable to mark any width row and any depth desired.

Two-Row Marker for one horse, \$15.00. Three-Row Marker for two horses, \$17.00.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

## MASTICA FOR GLAZING GREENHOUSES, SASHES,

Etc., new and old. It is elastic, adhesive and easily applied. It is not affected by dampness, heat or cold.

Every green house man has experienced difficulty in using putty for glazing, that is satisfactory for any length of time. Putty is not adapted for greenhouse work. "Mastica," when applied, in a few hours forms a skin or film on the entire mass, hermetically sealing the substance, and preventing the evaporation of the liquids, and remains in a soft, pliable and elastic condition for years. "Mastica" is of great value in going over old houses with a putty bulb or machine on the outside of sash, as it makes it perfectly tight and saves the expense of re-laying the glass.

The use of "Mastica" avoids the necessity of repeatedly reglazing the houses, saving much time and expense. With "Mastica" you can bed in or use outside with machine.

Broken glass can be easily removed and replaced by new without the breakage of other glass, which usually occurs with hard putty. One gallon will cover about 290 running feet (one side).

Price of Mastica  $\frac{1}{2}$  gal. \$1.50 gal. \$3.00



MASTICA  
GLAZING  
MACHINE.

PRICE \$3.00.

## Root Salt Cakes and Frames

For Horses, Cattle and Sheep. Pure Refined Salt. Acts as a tonic; invigorates the system; promotes digestion; purifies the blood. Makes healthy and vigorous animals.



### 30C. CAKE

Five Cakes for One Dollar  
per dozen Two Dollars

Frames, - - - - - 35 Cents

## Climax Handy Weeder

The greatest "little" device ever invented.

Nothing like it.

Thousands in use.



PRICE, 75 CENTS



Waters Tree Pruner  
75c to \$3.00



### OUR F. G. F.

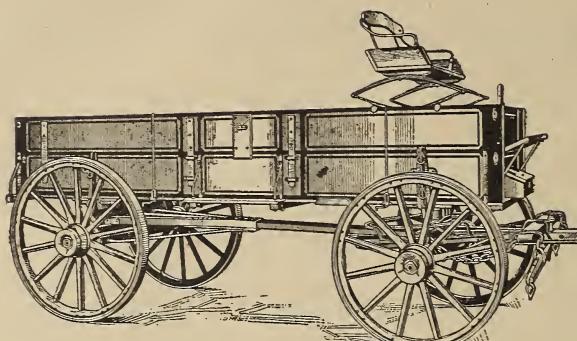
### PRUNING SAW.

This is a very practical Pruning Saw. It is a self-feeding draw cut blade with a thin back that will not pinch or bind; may be attached to a pole, permitting very rapid work on the tops of trees so difficult to reach.

Price \$2.50.

PRUNING SHEARS  
PRUNING SAWS  
TREE PRUNERS  
LOPPING SHEARS  
BASKET CLIPPERS  
PRUNING SAWS WITH POLE

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE



## John Deere Wagons

When you want longer or shorter stakes on a John Deere Wagon, all you have to do is to remove a bolt, adjust the stake to 8, 10, 12, or 14 inches in height, and replace the bolt. The stake is then just as solid as if it were built in place at that height. This is one convenience that every John Deere user enjoys. Every wagon is built upon honor and fully guaranteed.

## Tiger Transplanter

Sets all kinds of plants like cabbage, tobacco, etc. The success of plant setting is assured by its use. The most successful planter on the market. Made near by, and all parts supplied on a few hours' notice. **Price \$85.00.**

## FARMERS' COMBINATION CLAMP AND DRILL.

\$4.00 with Diamond Point Drills.  
\$4.50 with Syracuse Twist Drills.

The lowest priced first class article of its kind on the market can be used as a wood clamp, also a bench vice, or hand drill.



Extra Drills 10c each  
Extra Drills 25c each

## UNADILLA SILO

Unadilla Silos not only excel in ability to convert raw forage into palatable, succulent silage—the supremest test of a perfect Silo—but a decade of satisfactory service on thousands of farms has unmistakably proved them correct in design, durable in construction and convenient to fill or feed from.

Roof is made of durable cypress, capped with galvanized iron ventilator, and fitted with double doors for filling Silo.

Top steel cable anchors, connecting with the middle hoop of Silo through an equalizing saddle attached to the ground rod, prevents vibration during high wind storms.

Fasteners being entirely on the doors permits of the latter being left in the opening at any height, merely pushed up out of way and conveniently at hand for use.

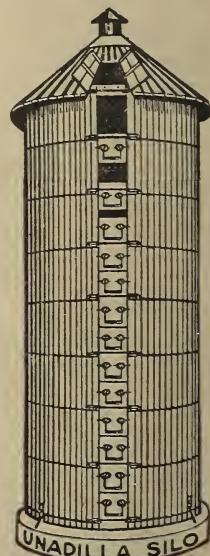
The unobstructed continuous door opening, 22 inches wide, enables the feeder to shove ensilage out of Silo, instead of fork-fng it up two or more feet to clear high doors or cross-braces.

Instead of having to refit the doors to frame, should they ever shrink or bind, a few turns of the nuts on ends of tie-rods readjusts frame to fit the doors.

Every hoop on Silo can be taken up 12 inches at the front, the nuts being close by to a man standing on ladder formed by the door fasteners.

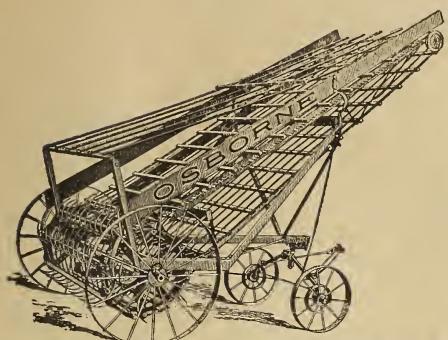
The door fasteners make a substantial ladder directly under opening. Rounds are 15 $\frac{1}{4}$  inches apart, stand out 5 inches from the doors and are 14 inches wide, providing a safe hand and foot hold.

Base anchors of steel cable hold Silo immovable on its foundation.



WRITE FOR FREE UNADILLA SILO BOOK  
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## THE E & B WINDROW HAY LOADER

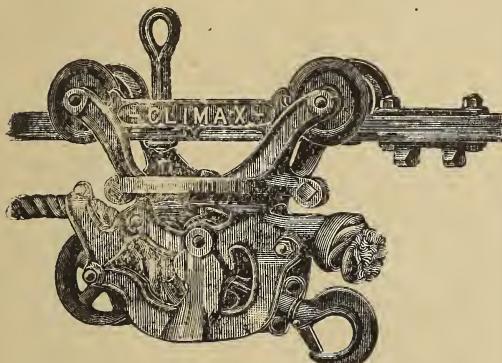


This relieves the loader of the twists and strains which would result were no fore carriage used. It also makes it unnecessary for the loader to be lifted when being connected to the wagon, as the hitch may be moved to any position. It permits the driver to disconnect the loader from the wagon without requiring him to get down off the load. When the load is complete he simply pulls the rope which extends up to the top of the load from the hook on the fore carriage. When disconnected from the wagon the loader is held in an upright position by the fore carriage. Loader can be used with any height of farm wagon without any readjusting, or changes.

The Osborne is a remarkably simple loader—in fact, it would be difficult to imagine a more simple loader. The entire mechanism of this loader consists of a gathering drum, which picks up the hay, and an elevator carrier, the elevator carrier is operated by the gathering drum.

The gathering drum is fastened to the main axle and is driven by both wheels. As a result of this construction, the gathering drum is raised and lowered with the wheels in passing over dead furrows and uneven ground. This insures all the hay being gathered irrespective of the condition of the ground. A wind break is provided, which prevents the hay from being blown from the carrier; the wind break is very effective and automatically adjusts itself to different conditions of hay. A tightening device allows the tension of the carrier to be properly adjusted. The Osborne loader is equipped with a fore carriage which carries a part of the weight of the loader.

ASK FOR PRICES



### THE NEY

### CLIMAX OPEN THROAT CARRIER.

With this carrier, it is possible to fill the mow closer to the comb of the roof than with any other carrier on the market. The throat has an exceptionally large opening, and the simple locking mechanism is so arranged that the lifting head or pulley locks directly on the sides or frame of the carrier, not depending on separate dogs or locks to hold the load. It is constructed and operated without the use of springs, and negates projections upon lifting pulley in a line with axis of pulley. This permits the pulley to swing very near the track and enables the carrier to work under conditions where any other carrier would necessarily fall.

Price \$11.00

### CARBORUNDUM SCYTHE STONES

Do away with the grinding of a scythe altogether. They produce a clean, sharp edge and do it faster and easier than it could be done on the best grindstone ever made.

Carborundum Scythe Stones must not be classed with the ordinary scythe stones that you have been accustomed to. The old style stones are merely sandstone and are of very little use. They simply RUB the edge into shape—Carborundum CUTS it—cuts it fast and clean and puts an edge on your scythe that will be a revelation to you. Price, 35c.

### REVERSIBLE HAY CARRIERS.

#### For either Steel or Wood Track.

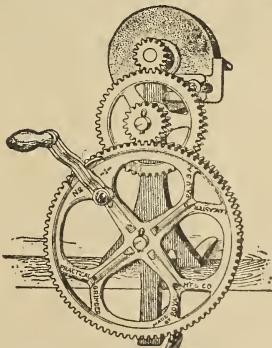
Light and Durable. Runs either way on the track without changing.

Price, \$6.00.

Ney Hay Car, steel or wood track	\$13.00
Climax Car, open throat	13.00
Double Harpoon Forks	3.50
Double Harpoon Alfalfa Fork	6.00
Steel Track, per foot	.33
Pulleys in Wood and Iron, each	.50 to 1.50
Hanger Hooks, dozen	2.20
Brackets, dozen	2.00
Floor Hooks, each	.20
Tedder Teeth, each	.40
Horse Rake Teeth	.40
Rope, best Manilla, at lowest prices.	
All Steel Hay Tedder	\$63.00 and \$75.00
Osborne Rake	\$50.00 to \$55.00
New Yorker Horse Rake	44.00 to 48.00

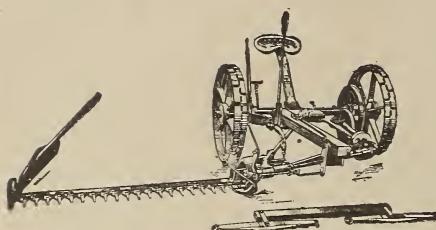
We carry Haying Tools of all kinds. Also Teeth for all Rakes and Tedder.

### CARBORUNDUM GRINDSTONES



This has taken the place of all Grinding Stones where quick results are desired. Prices based upon size, \$5.00 to \$8.00.

## DAIN VERTICAL LIFT MOWER



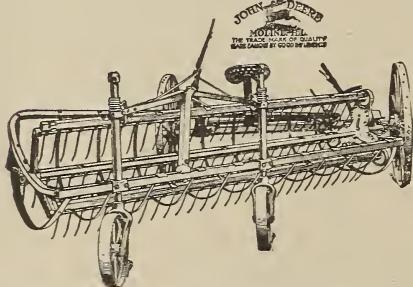
feature.

When the cutter bar sags back, which will happen on any machine, it is very easily brought forward by simply taking out a cotter key and tightening the large burr on the end of the drag bar the cutter bar can be drawn forward, fully compensating the wear.

Made in 4½, 5 and 6 foot sizes.

## JOHN DEERE-DAIN SYSTEM RAKE

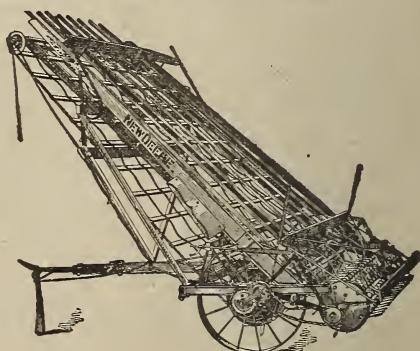
THE RAKE WITH THE INCLINED FRAME,  
VERTICAL LIFT AND CONVENIENT LEVERS



The rake that enables you to make higher price hay by curing it "Nature's Way"—air-curing it. With this rake you can follow the mower closely, rake while leaves are still active; place the hay on clean stubble in medium size, loose windrows, the leaves inside and majority of the stems outside to prevent sun scorching and preserve the leaves. In case of bad weather, windrows can be turned over to prevent damage to the hay. Inclined frame gives additional capacity just where needed; vertical lift—both ends of rake can be adjusted to gather all the way on uneven ground; convenient levers—add adjustments can be made from the seat.

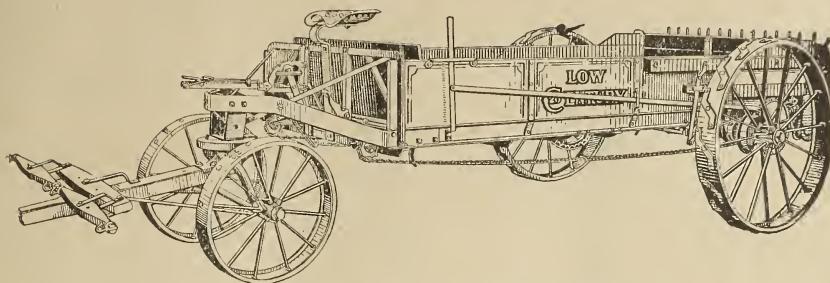
## NEW DEERE DOUBLE CYLINDER HAY LOADER

The New Deere Double Cylinder Hay Loader successfully handles anything from the lightest swath to the heaviest windrow. The rear or gathering cylinder is far enough back of the frame to get all the hay, but still leave the trash. This cylinder moves slowly, thereby handling the hay without damaging the foliage. This feature also makes it valuable in handling beans. Because all parts move slowly the loader is light draft and durable. The wheel-barrow type of mount whereby the load is carried directly over the wheels is an exclusive feature and prevents sagging of the axle. The carrier is prevented from running off the rollers by means of a flange and an adjustable bracket prevents sagging. Long life and ease of operation is assured in using this loader. Furnished in 6 and 8 foot widths. All repair parts supplied promptly.



Also a Full Line of all John Deere Farm Implements

## THE E-B No. 1 MANURE SPREADER

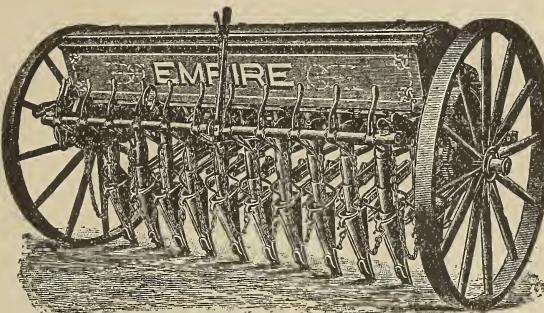


## THE E-B No. 1 SPREADER

The E-B No. 1 Low Down Spreader is one of the simplest, handiest, and easily operated machines on the market. It is only six feet wide and will go through any 6-foot barn door, yet it gives a uniform spread over 7 feet. The wheels track and always run on dry ground where they can get the most traction with the lightest draft. It is low-down, making it very easy to load from the stable, gutter or barnyard. The solid bottom saves the liquid portion of the manure which is the richest in plant food. The many sharp steel beater teeth thoroughly pulverize the manure before it reaches the widespread which further pulverizes it. The simplest and strongest device for driving the beater and widespread—the chain—is used on the E-B Spreader. The conveyor is driven by a ratchet which may be adjusted to run faster or slower as desired. A practical tractor hitch is made for the E-B Spreader.

## KENTUCKY GRAIN DRILLS

Kentucky Drills deposit the seed uniformly and cover evenly so that the field does not have thick and thin patches to cause unequal growth. This insures uniform results and a larger yield.



The Kentucky line is complete and comprises grain, fertilizer, and corn drills. When you buy a Kentucky Drill, you get one that has been built especially for your particular locality, and therefore is the drill best suited for your work.

On the Kentucky Fertilizer Drill the quantity of fertilized can be varied from 40 to 1,135 pounds to the acre. You can make this variation in feed without stopping team. That is a drill feature worth having, but read on. Instead of depending upon the hopper for support. The Kentucky feed yoke is in one piece, therefore it is impossible for the pinions to get out of line. You know what that means.

The double run grain feed cups sow all kinds of grain, as well as corn, large peas, Lima beans, red kidney beans, etc.; cup consists of but four parts, held by one bolt, which may be tightened to take up wear.

9 Tube, 11 Tube.

SPECIAL PRICES ON APPLICATION.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

## SALT LIME AND FERTILIZER BROADCASTERS

CROWN Broadcasters are constructed principally to sow Lime; they also handle perfectly all kinds of fertilizers and other soil beneficaries. All soil can be made more productive either by the application of some form of Lime to neutralize the free acid therein, or by the application of some other alkaline or in some cases an acid element to complete the neutral condition. Most plants are adapted by long practice to grow in soil that is approximately neutral.

CROWN Broadcasters are strong machines. Box rooms ten bushels. Force feed is attached directly on the main drive axle. No gears to freeze, strip or break. Ratchet wheels. Quantity can be changed instantly by one lever in center of hopper. Price \$45.00 to \$55.00.



## FARMER'S



## FAVORITE

## COOKERS

Heating drinking water for stock. Syruping down. Boiling cider. Preserving and evaporating fruit. Sugaring off. Boiling sap. In addition to the above, by using a top plate in place of the boiler it converts the cooker into a first-class stove for warming a milk room, hog house, poultry house, cellar or shop. Can you think of any other farm implement that can be used for so great a variety of purposes? The farm equipment is incomplete without one of these cookers.

Add \$6.50 for grate, for coal or coke.

The above prices are for the Cooker complete, consisting of stove or fire box, galvanized steel boiler with four handles and cover, one length of 6-in. stove pipe and damper and one 6-in. elbow.

## The Chatham Fanning Mill

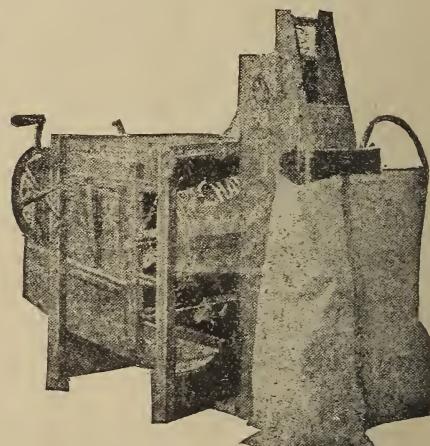
The secret of big crops is planting Pure, Healthy, Fat Seed!

The way to get such seed is to own this magic machine—the Chatham Mill. It's the greatest money-making farm machine in earth.

## GRAIN GRADER, CLEANER AND SEPARATOR

Handles Wheat, Oats, Corn, Flax, Buckwheat, Timothy Seed, Clover Seed—in fact, any grain or grass seed. Cleans, grades and separates all at one operation. Makes you independent—puts an end to planting foul, dirty seeds that grow poor crops and weeds. The "Chatham" handles 60 bushels per HOUR. Runs by hand or gas power.

Over 350,000 "Chathams" are now used on farms. Price \$65.00. With Bagging Attachments, \$75.00.

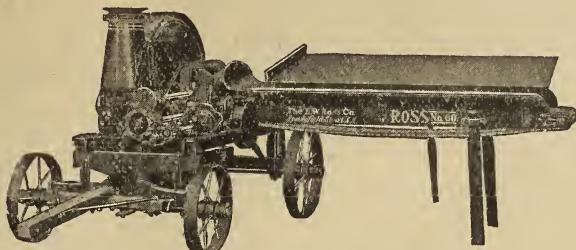


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# ROSS

LOW SPEED  
LIGHT RUNNING  
LARGE CAPACITY  
DURABLE

# SILO FILLERS



KNIFE ON FLY WHEEL TYPE

Size	Power Required	Mounted	Prices
No. 30—4 to 6	H. P. Gasoline.....	\$205.00	On Legs \$185.00
No. 40—8 to 10	H. P. Gasoline.....	295.00	360.00
No. 50—10 to 12	H. P. Gasoline.....	315.00	380.00
No. 60—15 to 18	H. P. Gasoline.....	350.00	310.00

Above Prices Are for Complete Ensilage Cutters.

The ROSS is the only Silo Filler on the market equipped with a combination of features consisting of:

"Ball Bearing" End Thrust and Auxiliary Knife Adjustment.

"Three" Adjustable and Self-conforming Main Shaft Bearings.

"6 Fan" Low Speed Distribution Lift Blower.

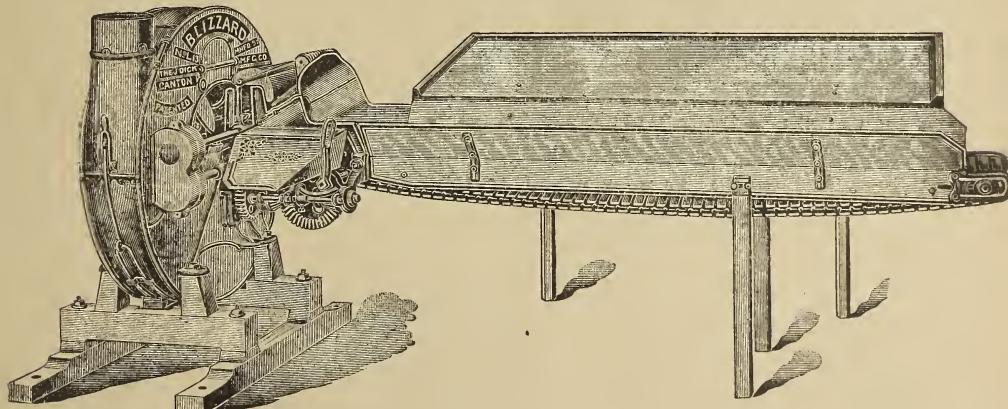
"Four Sided" Reversible Steel Cutting Bar.

"Start, Stop and Reverse" Lever for Feed Rolls and Traveling Table.

WE OFFER THESE ROSS ENSILAGE CUTTERS AT A SPECIAL MONEY-SAVING PRICE

## DICK'S NEW IMPROVED "BLIZZARD" CUTTER

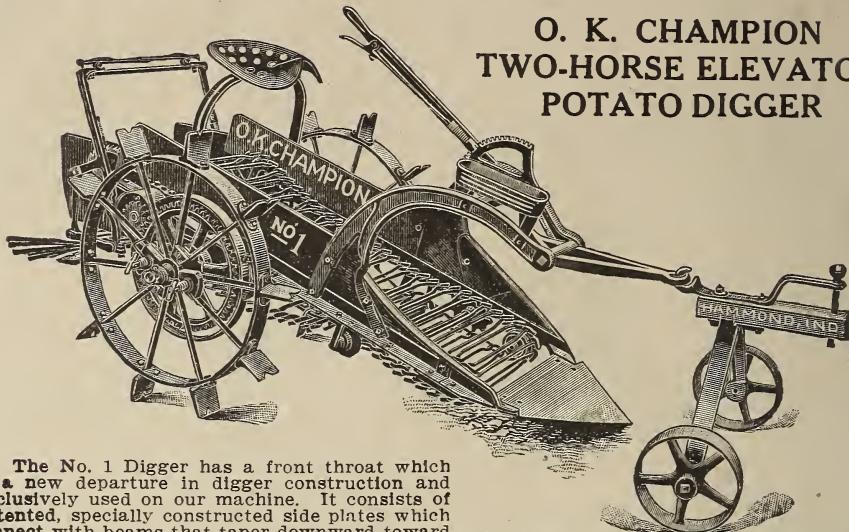
With Superior Self-Feed Table. Also with Plain Feed Table



N.	Length of Knives	Capacity per Hour Green Ensilage	Steam Power Required	Speed Revolutions	With 4 Knives self-feed on skids
L 18	11½ in.	4 to 6 tons	3½ to 5 H.P.	900 to 1100	\$174.00
M 21	14 in.	5 to 8 tons	4 to 7 H.P.	800 to 1050	210.00
M 13	16 in.	7 to 12 tons	7 to 10 H.P.	650 to 1000	277.00

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## O. K. CHAMPION TWO-HORSE ELEVATOR POTATO DIGGER



The No. 1 Digger has a front throat which is a new departure in digger construction and exclusively used on our machine. It consists of patented, specially constructed side plates which connect with beams that taper downward toward the front, curving outward along the upper edges and along the top flare. This makes the throat opening wider than the body of the machine, allowing the dirt to spread and lose itself more freely when first entering. It also forces the vines and weeds to slide up more easily and overcome the serious trouble of clogging. The inward extending base to which the shovel is bolted makes the opening absolutely rigid and strong. We have sold nearly 600 of these wonderful No. 1 Diggers in this vicinity. Price \$100.00.

### O. K. CHAMPION POTATO DIGGER NO. 3 WITH EXTENSION ELEVATOR

This Digger is constructed with the view of producing the best results with the least mechanism so as to avoid complication and cause as little friction as possible. It is ample strong for any soil or condition of field; its capacity sufficient, having over fifteen square feet of separating space. Its simplicity is one of the main features because it lessens the possibility of wear and breakage. Price, \$125.00.

Mr. F. H. Ebeling, Syracuse, N. Y.

Dear Sir:—In regard to the Champion Potato Digger, would say, I bought one of your No. 1 Champions about eight years ago and I have used it ever since with the best of success. Have dug from 25 to 40 acres of Potatoes every year. Also, have been able to dig potatoes in the afternoon when it rained in the forenoon, and when the water was standing in the rows. This is something that no other digger in my neighborhood is capable of doing. While my neighbors' diggers were all at standstill—my digger was doing fine work after the heavy rains.

The expense for repairs in those eight years has amounted to less than \$5.00.

Very truly,

RICHARD J. LONG.

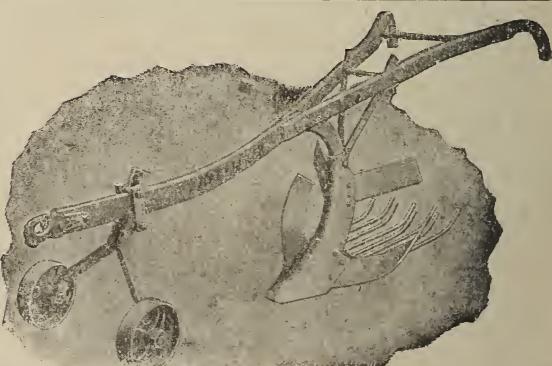
### Retail Prices for 1921—F. O. B. Factory

Digger No. 1, 20 inch, with Shaking Fork.....	\$115.00
Digger No. 3, 22 inch, with Extension Elevator.....	145.00
Digger No. 5, 22 inch, with Extension Elevator.....	170.00
Digger No. 6, 22 inch, Engine Drive, Without Engine.....	165.00
Seed Potato Cutter .....	7.50
Automatic Planter No. 22, Plain .....	75.00
Automatic Planter No. 22, Fert.....	88.00
Dial Planter No. 25, Plain.....	115.00
Dial Planter No. 25, Fert.....	128.00
Four-Row Sprayer, Traction Drive.....	130.00
Power Sprayer, complete with Engine and one set spray pipes.....	250.00

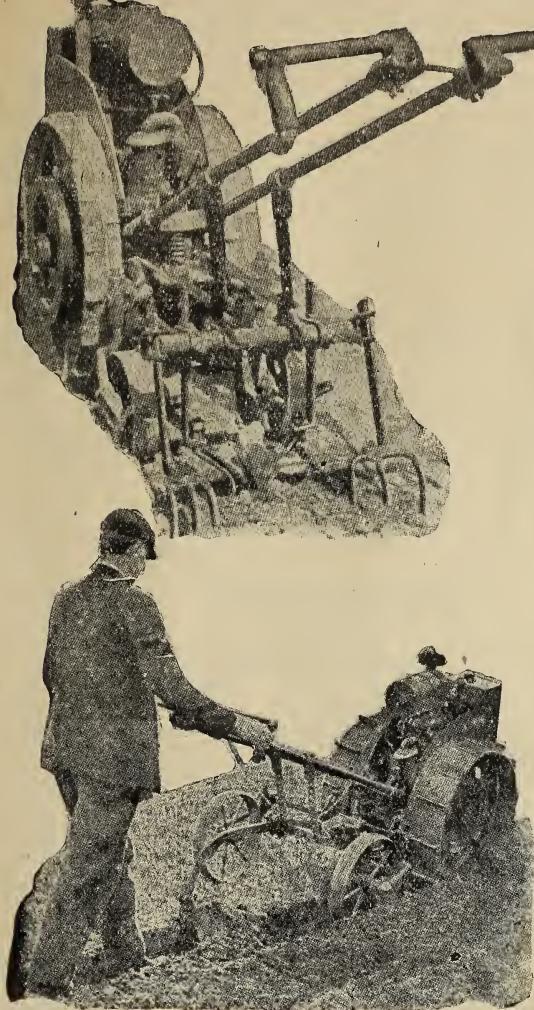
### “HERCULES” POTATO DIGGER Best and Cheapest

This is the age of progress. Not so many years ago, the farmer used a Shovel Plow to raise potatoes. Today, the enterprising and thrifty farmer uses the “Hercules” Digger, which reaches under the row of tubers and deposits them on top of the ground in full view, ready to be picked up into bags or baskets.

All parts metal excepting the handles. Weighs 94 lbs. Covered by a liberal guarantee. Price \$25.00.



ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE



# BEEMAN Garden Tractor

Takes the Place of a  
Horse or Mule for  
Plowing, Harrowing  
or Cultivating

It Cultivates Any Crop Grown  
in Rows

It goes astride onions, carrots, beets and other crops grown in 12, 14 and 16-inch rows. We make attachments for cultivating either one or three rows at a time. It cultivates between wide rows of corn, potatoes, tobacco, cotton, etc.

**AS a Power Plant for Belt Work**  
It does away with the necessity for any other four-horse power engine on the farm, because it trots around from one job to another on its own power. Operates pump, washing machine, cream separator, and other similar light farm machinery.

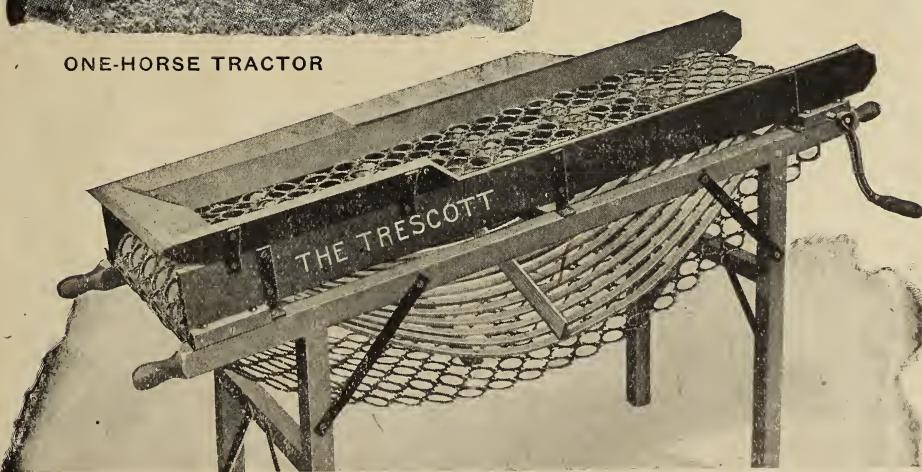
Price \$340.00 F. O. B. Minneapolis — purchaser to pay the freight. Terms — \$50.00 cash with order when signed, and balance to be paid, with freight added, upon arrival of the Tractor. Same to be taken from the freight house by the purchaser.

Ask for particulars with illustration.

---

## Trescott Apple and Potato Grader and Sorter

ONE-HORSE TRACTOR



THE TRESCHOTT

The greatest labor-saving machine on the market. Will do the work much better than five men. Absolutely accurate. Sorts and grades apples, potatoes, etc., suited to the market needs, which always brings a better price than the unsorted crops. Can furnish promptly at the following prices: Model No. 1 Grader, \$40.00; extra belts, each, net, \$13.00. Model No. 2 Grader, \$55.00; extra belts, each, net, \$16.00. Model No. 3 Grader, \$65.00; extra belts, each, net, \$20.00. Model No. 4 Grader, \$70.00; extra belts, each, net, \$25.00. Model No. 6 FLORIDA SPECIAL (3 Grades), \$95.00. A special discount for cash will be allowed.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE



## DANA'S STOCK LABELS

Stamped to order with letters and serial numbers.

For Cattle, Sheep, Hogs, Etc.  
 Cattle Labels.....75c doz., \$4.00 per 100  
 Sheep and Hog Labels..50c doz., \$3.50 100  
 Punches for Cattle.....\$1.75 each  
 Punches for Sheep and Hogs....\$1.50 each  
 Bull Nose Punch.....\$1.75 each  
 Bull Nose Rings...3" 50c, 2 1/2" 45c, 2" 40c

The above mailed you upon receipt of price named.



## Banner Root Cutter

HAND AND POWER



Has a capacity of 80 to 100 bushels per hour. One bushel per minute has been cut as a test, many times.

It saves the price of a cow, as they cannot choke when fed on roots cut by this machine.

No. 20 \$15.00: No. 30 \$30.00.

### Hog Rings

30 Cents

Per Box.

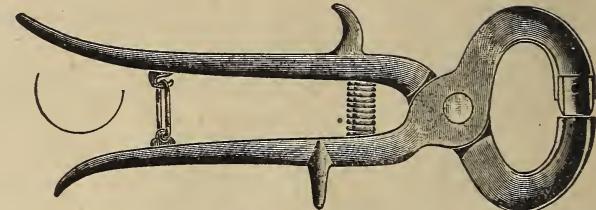
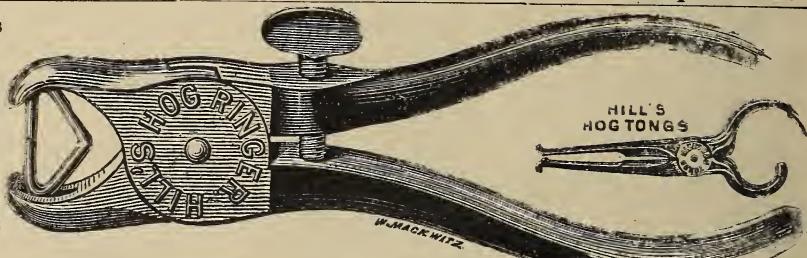
### Hog

Ringer

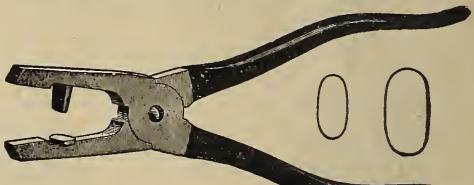
75 Cents

### Hog Tongs

\$1.00



Dana's Bull Nose Punch.



Dana's Cattle and Sheep Punch.

## A COMBINATION TOOL

Here's the handiest tool a farmer ever can own. Stop and think. It drives, pulls, makes and saves staples. It's a wrench and pincer, nail puller and hammer. It cuts, splices straightens and tightens wire. It removes trellises.

Saves time and wages; saves cutting hand; saves your temper, and it saves chasing cattle. You need one. Write now. It's only \$2.00.

### 7--SEVEN TOOLS IN ONE--7

Price \$2.00



NEEDED BY 6,000,000 FARMERS.  
 It takes the Place of Button Pliers.

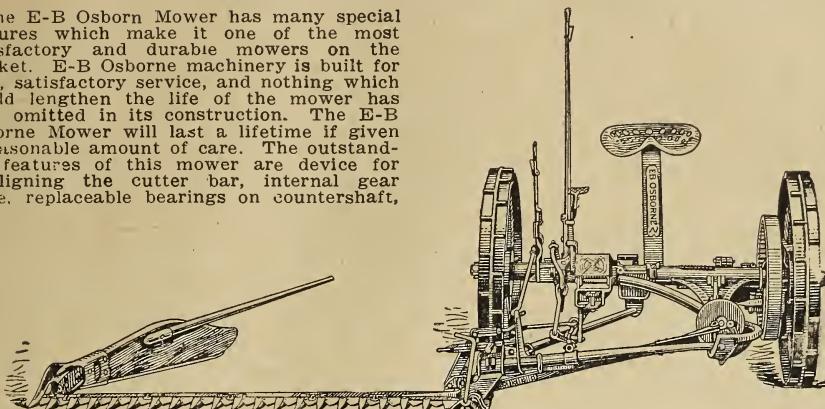
## CASTINGS REPAIRED

Cast Iron, Steel and other Metals repaired and mended on short notice by the new welding process. Bring in your parts for repairing. This work can be done on short notice.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

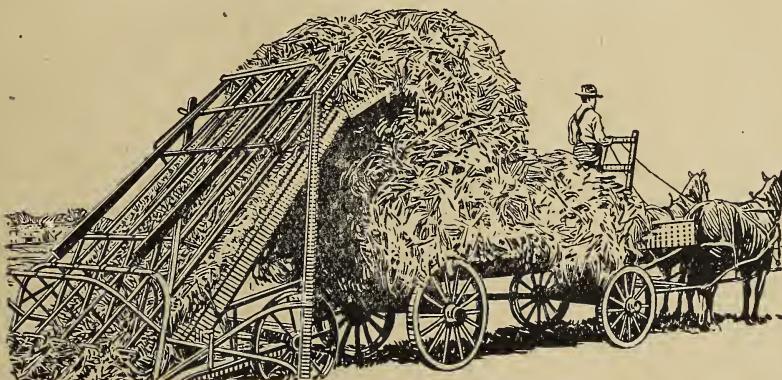
## THE E-B OSBORNE MOWER

The E-B Osborn Mower has many special features which make it one of the most satisfactory and durable mowers on the market. E-B Osborne machinery is built for long, satisfactory service, and nothing which would lengthen the life of the mower has been omitted in its construction. The E-B Osborne Mower will last a lifetime if given a reasonable amount of care. The outstanding features of this mower are device for re-aligning the cutter bar, internal gear drive, replaceable bearings on countershaft,



and great range of tilt of the cutter bar. These features make the E-B Osborne Mower the simplest to operate, the longest lived, and the most satisfactory mower on the market. It is made in both regular and vertical lift.

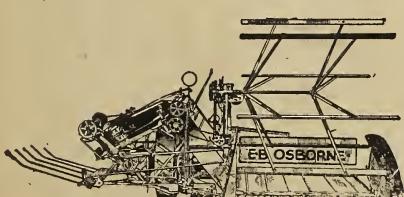
## THE E-B GEARLESS HAY LOADER



The E-B Gearless Hay Loader is in reality a one-man loader. It will take up heavy windrows and load a high load. For loading alfalfa and clover the E-B Gearless Loader gives splendid satisfaction loading the hay without jarring off the leaves, the most valuable part. The E-B Gearless Loader is simple and strong, and saves time, labor and money.

The hay may be allowed to pile up at the rear of the load to be spread later with little effort. The E-B Gearless is mechanically correct. All the power for the elevator is derived from the main wheels. There are no gears or sprocket wheels and chains to wear. The teeth make a long sweep over the surface, picking up the hay as gently as possible. The loader is quickly and easily attached and detached behind the wagon.

## THE E-B OSBORNE GRAIN BINDER

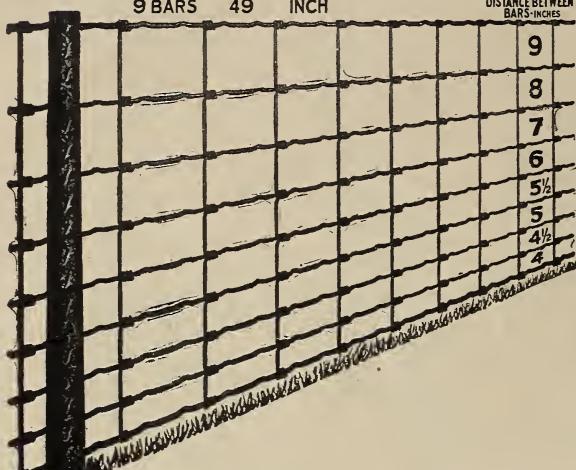


The E-B Osborne Binder is the same dependable, long-life binder that has been famous for half a century under the International Harvester Co. The E-B Osborne Binder has stood the test of time. It will get all the grain, down, short, tangled or lodged. The reel may be set anywhere from 4 inches to 34 inches above the platform. The reel cannot sag even on the 8-foot binder, for there are adjustments to prevent it. There is a 17-inch range of adjustment of the binder head which means perfect bundles in the shortest and tallest grain. The E-B Osborne Binder may be adjusted so as to cut as low as 1 1/2 inches from the ground without dragging the platform.

The E-B Osborne Binder is very light in weight and draft, and simple to operate. It is made in four sizes: 5, 6, 7 and 8 feet.

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## **“AMERICAN” STOCK AND CATTLE FENCING**



This is a fence that fences and stays fenced. It stands for freedom from worry. With this fence you can rest easy and need fear no danger of your stock breaking out.

In this fencing we have every form of fences for sheep, hogs and cattle. It's made in two weights, medium and heavy

Here's an especially interesting feature about this fencing—it's not only one of the best made but the cost is very small. The price was never so high as now. We have plenty in stock of the leading sizes. Ask or write for booklet.

The Lott Fence stretcher is the only tool necessary for putting up the American Field and Hog Fencing. Every farmer should own this Stretcher. It costs only \$8.00.

## A Wonderful Fence

There's no better fencing made for hogs, cattle, poultry or rabbits. It makes an ideal garden fencing. It's strong, thoroughly practical and more durable than netting. The light specifications are strong enough to turn stock.

This fencing comes in 6 to 21 bars, in 6 and 12-inch stays, 24 to 58 inches high.

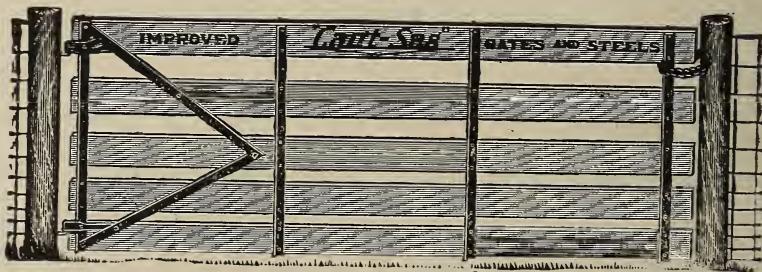
**FENCING, POSTS  
and GATES**  
RETAIL PRICE LIST

RETAIL PRICE LIST

ENCING P

FENCING		Per Rtu
635	Style A—12-inch	\$ .45
726	Style A—6-inch	.60
832	Style A—6-inch	.67
845	Style A—12-inch	.50
949	Style A—12-inch	.65
845	Style D—12-inch	.78
949	Style D—12-inch	.90
1047	Style A—12-inch	.65
1155	Style D—12-inch	1.00
1558	Style E—6-inch	.90
1948	Style F—6-inch	.85
2158	Style F—6-inch	.90
1635	Style F—6-inch	.65
LINE POSTS, 6 feet		\$.65
LINE POSTS, 7 feet		.75
LINE POSTS, 8 feet		.85
LINE POSTS, 9 feet		1.00
CORNER POSTS, 8 feet		.55
CORNER POSTS, 9 feet		.575
END POSTS, 8 feet		\$3.75
END POSTS, 9 feet		4.25
12-ft. American Gates, 50-in.		
Plain top		10.50
14-ft. American Gates, 50-in.		11.50
3-ft. American Walk Gates,		
42-in. Plain top		3.50
4-ft. American Gates, 42-in.		
Plain top		4.00

## CAN'T-SAG FARM GATE



This splendid farm gate does away with all the old gate troubles that have harassed farmers for many years. They will stay just as they are put up. Will not sag, always ready for business, made of best material, and is the only real dependable wood gate on the market. A trial of this gate will introduce a lot more of them in your neighborhood.

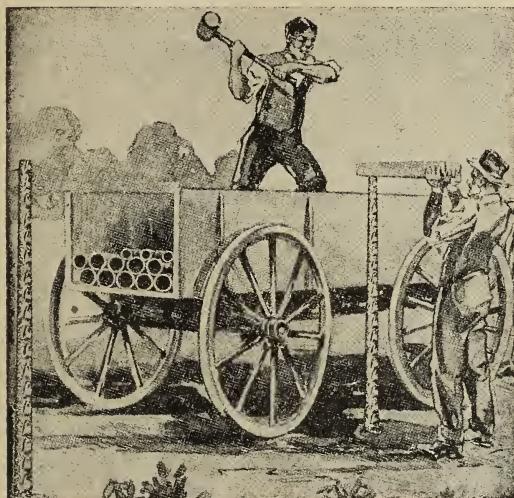
**PRICE**—12 ft., \$8.00 14-ft. Gate \$9.00. Steel metal parts for "Can't-Sag Gate" \$4.00

**PRICES SUBJECT TO CHANGE WITHOUT NOTICE**



The above illustration indicates design 125<sup>3</sup> of American Steel Fencing, which is eminently satisfactory for general farm purposes. The close spacing at the bottom will turn hogs, also hold Sheep, Cattle and Horses.

We carry a full line of everything in the way of STEEL FENCING for Horses, Sheep, Sheep, Hogs and Poultry. Price very reasonable.



## STEEL POSTS

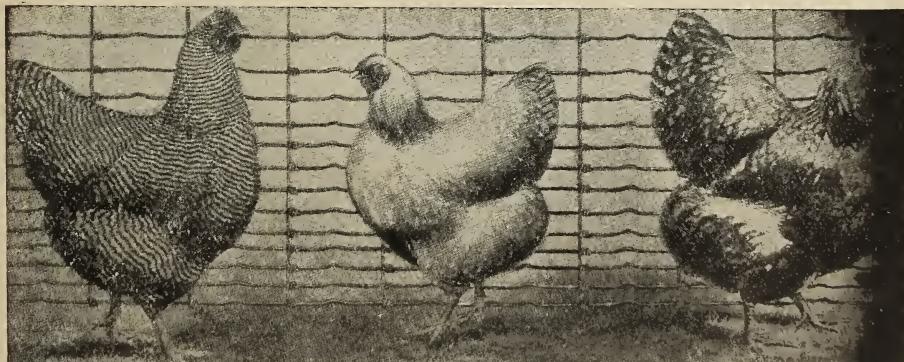
Note the very simple method of driving steel fence posts. Two men, horse and wagon do the work rapidly. We carry a large stock at our warehouse at the following prices:

### Price List

LINE POSTS, 6 feet.....	\$.65
LINE POSTS, 7 feet.....	.75
LINE POSTS, 8 feet.....	.85
LINE POSTS, 9 feet.....	1.00
END POSTS, 8 feet.....	3.75
END POSTS, 9 feet.....	4.25
CORNER POSTS, 8 feet.....	5.25
CORNER POSTS, 9 feet.....	5.75
12-ft. American Gate.....	10.50
14-ft. Gate, American, 50-in.....	11.50
3-ft. Single Walk Gate; plain.....	3.50
4-ft. Single Walk Gate, plain.....	4.50

There's no better fencing made for hog, cattle, poultry or rabbits. It makes an ideal garden fencing. It's strong, thorough, practical and more durable than netting. The light specifications are strong enough to turn stock.

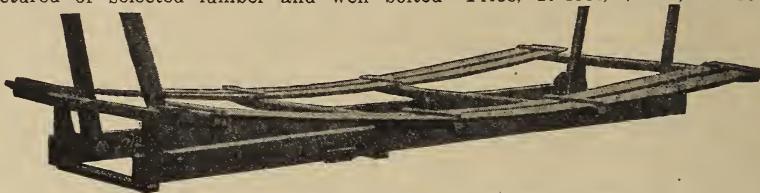
This fencing comes in 8 to 15 bars, either in 6 or 12 inch stays, 20 to 50 inches high.



PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

## MERIDIAN HAY RACK.

Manufactured of selected lumber and well bolted Price, 16-foot, \$25.00; 14-foot, \$23.00.



## OUR IMPROVED SLIP.



The above cut represents our Improved Slip, which any farmer can make by using our castings, which are shown in the front part of the cut. These castings are all finished and ready for the 3½ inch maple runners. Since it is impossible to get Slip Runners sawed with the right sweep, any farmer will appreciate the benefit of our castings at a glance.

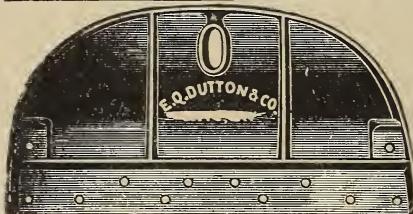
All complete like above cut, \$15.00      Set of Shoes for above \$5.00

## IRON HOG TROUGH.



Made in four sizes 3, 4, 5 and 6 feet, 8 inches deep, 12 inches wide. Price, \$1.55 per foot.

## IRON STONE BOAT HEAD.



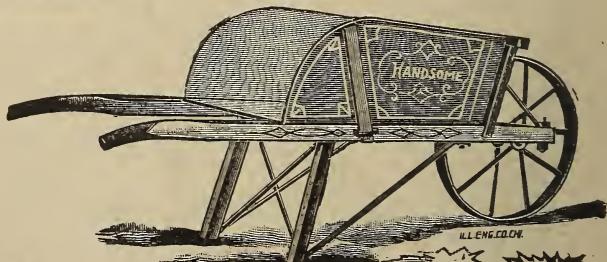
A Simple, Complete and Inexpensive device whereby a Stone Boat can be made in a few minutes by using straight plank. One head will last for years.

Price \$6.00 Each

## GARDEN

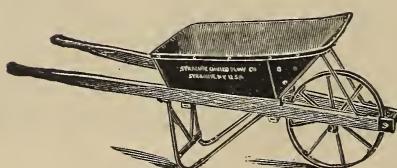
### BARROWS.

Price \$6.00 to \$8.00



## STEEL TRAY BARROW

The framework of this barrow is bolted together and is fitted with a steel tray and patent wood wheel with iron hub, specially adapted for stable work. **Deep Steel Tray, No. 75-A \$8.50.** We also offer **The Common Wood or Paddy Barrow**, with iron or wood wheels, \$3.50 and \$4.00.

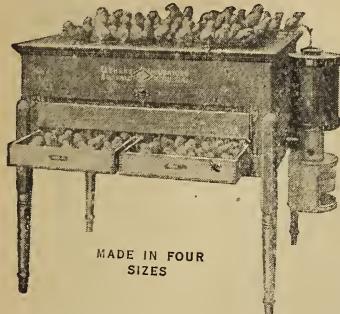


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# GENUINE CYPHERS COMPANY INCUBATORS PATENTED

## Made in Four Sizes

For the season of 1920 we offer our customers the Cyphers Incubator Company's complete line of Incubators. This style of high class, guaranteed hatching machines, running through four different sizes, represent all that is efficient, convenient and reliable in incubator construction. In buying a Cyphers Company Incubator you take no chance.



390 Egg Standard Cyphers Incubator. Price Complete, \$85.00

Incubator is guaranteed by the manufacturers to do first-class work in the hands of every purchaser who will give it a fair trial. Are built in four popular sizes and at prices as follows: 70 eggs, price complete \$42.00; 140 eggs, price complete \$51.00; 244 eggs, price complete \$68.00; 390-400 eggs, price complete \$85.00.

### Standard Cyphers Incubators

These are machines that for twenty years have been recognized as the "Standard Hatchers of the World." Tens upon tens of thousands of them have been sold and are in successful use in every civilized country on the globe. They are used by more Government Experiment Stations, on more large, practical poultry plants, on more successful duck and egg farms, and by a larger number of foremost poultry breeders than all other makes combined. They are the last word to date in incubator building, not a penny being spared anywhere in their construction to make sure of their doing satisfactory work in all climes, under widely different conditions, in the hands of all sorts of people. They are built to hatch and to last. With ordinary care they should last an ordinary lifetime. Every Standard Cyphers

work in all climes, under widely different conditions, in the hands of all sorts of people. They are built to hatch and to last. With ordinary care they should last an ordinary lifetime. Every Standard Cyphers

### PRICE LIST

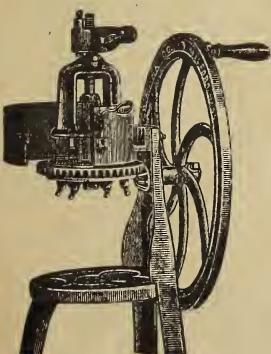
	Price Each
Standard Incubator No. 0, 70 Egg.....	\$42.00
Standard Incubator No. 1, 144 Egg.....	51.00
Standard Incubator No. 2, 244 Egg.....	68.00
Standard Incubator No. 3, 390 Egg.....	85.00
Electrobator, No. 1, 60 Egg.....	.....
Electrobator, No. 2, 120 Egg.....	.....
Adaptable Hover .....	21.50
Cyphers Center Lamp Portable Hover.....	18.00
Style "B" Brooder .....	45.00
Paradise Brooder, Base Section .....	35.00

### MANN'S CELEBRATED BONE CUTTERS

We offer the best Bone Mill on the market. Fully warranted against breakage for two years. The only machine that will cut green bone fine enough for Bantams and little chickens.

#### Price List of Mann's Green Bone Cutters

No. 5C with Crank Handle.....	\$12.00
No. 5B with Balance Wheel.....	16.00
No. 5BM with Balance Wheel and Iron Stand.....	20.00
No. 7 with Balance Wheel and Iron Stand.....	24.00
No. 7½ Hand and Power.....	32.00
No. 9 Hand and Power .....	36.00
No. 11 Power Machine .....	50.00





## HOW LARGE LAWNS ARE KEPT IN FINE CONDITION

The Ideal Power Lawn Mower has simplified the grass cutting problem for thousands of large estates, public parks, colleges, golf clubs, cemeteries, industrial plants, country clubs, etc.

Wherever the Ideal is used, labor troubles vanish and smooth velvety lawns are maintained at a minimum expense.

Actual use on many of the finest, largest and best kept lawns in the country has shown that the Ideal will cut from four to five acres of grass per day; doing the work of five or six hard-working men with hand mowers.

Moreover, the Ideal is a power mower and roller in one,—the sod is continually kept smooth and firm because it is rolled every time the grass is cut.

The Ideal is of very simple design and sturdy construction. Having no complicated mechanism, it is easy to operate and care for.

Photo above shows the Ideal as a walking power mower,—we can also furnish outfit with riding trailer which makes compact, light weight, and at the same time the most practical riding power mower on the market.

For work on golf courses, we can also furnish cutting unit for use on putting greens.

We recommend the machine highly for all those who have large areas of grass to be cut and kept in condition. Call upon us for demonstration or write for special literature. See following page for prices and references.

Syracuse, N. Y., August 2, 1920.

Mr. F. H. Ebeling.  
Dear Sir:—

Enclosed you will please find check for the lawn mower, and I might mention that it is giving entire satisfaction. It usually takes a horse two days to do the work and cuts up the lawn more or less, and the horse will not mow as close to the trees, therefore extra trimming is necessary. We mowed our three lawns, starting about 9 o'clock and were through before 4 o'clock, and the lawns never looked better, all of which speaks well for the "Ideal."

Very truly yours,

E. I. RICE.

My Dear Mr. Ebeling:—

The Ideal Power Lawn Mower purchased from you was sent to the old home where we gave it a tip-top good try-out on the large grounds. "It works like a dream"—perfectly and economically, leaving the lawn in better condition, and doing the work in about half the usual time. I am pleased to enclose my check for the Mower.

(Signed) JOHN HUNTER.

Fulton, N. Y., September 29, 1920.

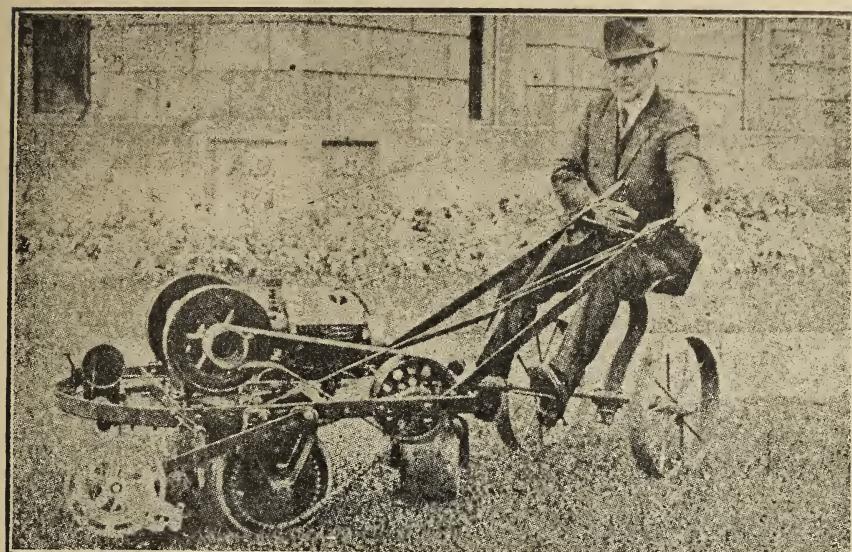
## IDEAL POWER LAWN MOWER



Does the work of

five hand mowers

## IDEAL POWER LAWN MOWER



**THE IDEAL POWER LAWN MOWER** is a sturdy, compact, fool-proof mower which runs on gasoline power and requires only the guidance and attention of an ordinary workman. It will do as much work as five or six men can do with hand mowers, and is rapidly replacing these as well as the old horse-drawn mower wherever there is any quantity of lawn to be cared for.

The "Ideal" is not only a power mower but is also a power roller.

Hundreds of "Ideals" are now in use on large estates, cemeteries, public parks, country clubs and golf courses.

Send for our fully illustrated and descriptive catalog.

## A Few Purchasers in Central New York

C. S. Estrabrook, Syracuse, N. Y.  
E. N. Trump, Syracuse, N. Y.  
E. I. Rice, Syracuse, N. Y.  
Willard C. Lipe, Syracuse, N. Y.

John Hunter, Fulton, N. Y.  
Oswego Public Works, Oswego, N. Y.  
H. A. Moody, Pulaski, N. Y.  
Camillus Cemetery, Camillus, N. Y.

## A Few IDEAL Users

Thomas A. Edison, West Orange, N. J.  
St. Mary's College, North East, Pa.  
State Normal School, Oswego, N. Y.  
Montclair Dept. of Parks, Montclair, N. J.  
Geo. M. Cohan, Great Neck, L. I.

Mary Roberts Rhinehart, Sewickley, Pa.  
H. J. Heinz Estate, Pittsburg, Pa.  
Dedham Country Club, Dedham, Mass.  
Trinity College, Hartford, Conn.

Douglaston Manor, Pulaski, N. Y., June 25, 1920.

Mr. F. H. Ebeling, 217 Warren St., Syracuse, N. Y.

My Dear Mr. Ebeling:

I am writing you in regard to the "Ideal Power Lawn Mower" which I purchased of you a short time ago.

It's a great "little machine." We can mow in two hours our lawn which took a man and horse a full day and do the work better in every way. It is also a pleasure to run it. It's certainly a great success in every way as a mower, also as a time and money saver.

Yours very truly,

H. A. MOODY.

## 1921 Price List of Ideal Tractor Mowers

Ideal Tractor Mower with one cutting mower.....	\$370.00
Ideal Tractor Mower with one cutting mower and riding trailer.....	395.00
Extra for one cutting mower.....	60.00
Extra for one 22 in. putting green mower.....	60.00
Ideal Junior, 22 in. Power Lawn Mower.....	255.00
Extra for one cutting Mower .....	35.00
Extra for one 18 in. putting green mower.....	50.00

F. O. B. Cars Lansing, Michigan

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STERLINGWORTH  
LIQUID BORDEAUX

A fungous remedy in paste form for use against most Rots, Rusts, Blights, Mildews, etc., on fruits

and vegetables. 1 gal. makes 10 to 50 gals. Prices: 1 qt., 65c; 1 gal., \$1.75.



STERLINGWORTH  
WATER GLASS

Preserves eggs for ten months. One quart enough for 12 dozen eggs. Do not trust your eggs to water glass of unknown strength. Directions on can. Prices: 1 qt., 40c; 1 gal., \$1.50.

STERLINGWORTH  
KEROSENE EMULSION



A valuable remedy against Scale and many soft bodied and sucking insects, such as Plant Lice, Leaf Aphis, Wooly Aphis, Celery Aphis, Squash Bug, Leaf Hopper, Mealy Bug, Cabbage Worm, etc. Mixes with 10 to 15 parts of water. Prices: 1 pt. cans, 30c; 1 qt. cans, 50c; 1 gal. cans, \$1.25.

STERLINGWORTH  
ANT-I-CIDE

A dry powder for sprinkling. Useful against ants in lawns, gardens, etc. Satisfaction or money back. One pound covers 200 sq. ft. Prices: 1 lb. spr. box, 30c; 5-lb. box, \$1.25.



STERLINGWORTH  
CUT WORM KILLER



A coarse powder for sprinkling near plants to be protected. Cut worms prefer it to vegetation. One pound is sufficient for 100 plants in hills. Prices: 1-lb. sprinkler box, 30c; 5-lb. box, \$1.25; 25-lb. drum, \$5.00.



STERLINGWORTH  
WHALE OIL SOAP  
WITH TOBACCO

Kills most sucking insects on trees, plants, vines and rose bushes. Contains tobacco extractive matter. Prices: 1 lb., 35c; 5 lbs., \$1.50; 10 lbs., \$2.40.

STERLINGWORTH  
NO-SCAB



Never plant potatoes without first treating them with No-Scab. Useful for Oak Smut and covered Smut of Barley, Stink Smut of Wheat and Grain and for Potato Scab. Full directions on package. Price: 8 oz. bottles, 60c.

STERLINGWORTH  
POWDERED TOBACCO



Very finely ground. Strong in nicotine. Sticks well. Effective against many bugs, worms and lice on cabbage, squash, cucumbers, melons, etc. Price: 1-lb. sprinkler box, 20c.

STERLINGWORTH  
ANT DRIVER



A non-poisonous powder for driving ants from houses. Satisfaction guaranteed or money refunded. Price: Sprinkler top box, 30c postpaid.



STERLINGWORTH  
ANTI CROW CORN OIL

Protects newly planted corn from crows. Don't kill the crows and blackbirds. Keep them from damaging your crops by preventative measures. Prices: 1 pt. cans, 35c; 1 qt. cans, 60c; 1 gal. cans, \$1.50.

STERLINGWORTH  
CREOLUSOL



A powerful antiseptic and purifier. Its use will keep your home healthful and prevent contagion. One part makes fifty by adding water. Turns water white. Prices: 1 pt. 50c; 1 qt. 75c; 1 gal. \$2. \$1.00.

STERLINGWORTH  
ROACH KILLER



This is non-poisonous to human beings, but fatal to roaches and many other crawling household pests. Twenty-four hours after use the dead insects will be found on the floor where they can be swept up. Prices: 3-oz. box, 25c; 1-lb. box,

# POULTRY REGULATOR POULTRY REMEDIES BABY CHICK FOOD

## SATISFACTION GUARANTEED OR MONEY BACK

  
It is surprising how even scrub stock can be made to lay when given a proper laying ration combined with Pratts Poultry Regulator, and it will make the laying strains lay even better. Pratts Poultry Regulator regulates and tones up the entire system. It gets hens quickly over the molt, insures early pullet maturity and is a guarantee of plenty of winter eggs. It prevents all the common poultry ailments; is a tonic as well as a digestive. Makes the feed go farther, and prevents birds going off condition.

Packages, 30c, 60c and \$1.20. 12-lb. pails, \$1.80; 25-lb. pails, \$3.10.

Don't let Roup cut your profits. Prevent this costly, contagious disease. The sure and easy "ounce of prevention" is

### PRATTS ROUP REMEDY

A safe prevention and cure for roup, colds, catarrh, diphtheria and bad weather troubles.

Quickly absorbed by the blood, it purifies the system, reduces the fever and allays inflammation.

Tablets or Powder, 30c, 60c, \$1.20.

Give comfort and health by destroying lice, mites and other vermin, and the germs of roup, colds and other diseases by freely and regularly using

Three times as powerful as carbolic acid. Doesn't burn or irritate; safe to handle; lowest in price.

Besides its use in the poultry yard, it is an admirable household anti-septic and deodorant.

1 qt., 70c; 1 gal., \$2.00.

You will raise every possible chick, and even the weak ones come along in a few days as strong as the rest if you feed them **PRATTS BUTTERMILK BABY CHICK FOOD**

It does make chicks live. A complete food for the first three weeks.

It prevents white diarrhoea, leg weakness and digestive troubles.

It more than speaks for itself from the chicks it saves.

Costs only a cent a chick for three weeks. 14-lb. Bag, \$1.50. Packages, 35c and 70c.

To protect your chicks from white diarrhoea, the most destructive of all chick diseases, it is only necessary to give

### Pratts WHITE DIARRHOEA REMEDY

60c and 30c

in the drinking water from the first drink. This remedy has saved many dollars worth of chicks for poultry raisers. You can depend on it.

Lice make loafers of the best intentioned hens. If you want regular layers, kill the lice. Pratts Powdered Lice Killer kills all kinds of lice on big chicks and little. Use it on sitting hens and incubator chicks. Acts as a deodorizer as well. It has the exceptional merit of killing lice and all such vermin without injuring plumage or skin of the birds or irritating throat or lungs if inhaled.

Pratts Powdered Lice Killer may be used wherever a powder is suitable. It is a splendid deodorizer, and will kill lice on horses, cattle, hogs, dogs and cats.



# POULTRY SUPPLIES

Beef Scraps, lb. 5 1/2c; 100 lbs. \$4.75	Food Hoppers, Dry, \$1.60	Roofing Caps, tin, per lb.....	10
Crushed Shell.....lb. 2c; 100 lbs. 1.25	.....\$1.90, \$2.40, \$3.50, \$5.00.	Roofing Nails, per lb.....	.07
Bone Meal.....lb. 5c; 100 lbs. 4.00	Fountains, Wall, 1 gal., \$1.00	Shells, Oyster, per 100 lbs.....	1.25
Alfalfa, Mealed. lb. 5c; 100 lbs. 3.50	2 gal. ....1.50	Special price for larger lots.	
Bands, dble. Clinch, doz. 15c; 100 .....1.00	Fountains, Drinking, galv. iron, small, 30c; medium, 35c; large, 45c; special duck. ....1.00	Spray Pumps, for spraying white-wash .....\$7.50 and 10.00	
Bands, Adjustable, doz. 15c; 100 .....1.00	Fountain, Warm Water Drinking Fountain. ....2.00	Sprayers .....40c to 1.50	
Bands, Pigeon Leg., doz. 15c; 100 .....1.00	Fencing, Hexagon—2-inch mesh, made 12, 18, 24, 36, 48, 60 and 72 inches wide; 1-inch mesh, made 12, 18, 24, 36, 48, 60 and 72 inches wide, each roll contains 150 lineal feet	Staples, Fence, per lb.....	.07
Clover Cutter, without stand...\$12.50	.....Market Prices	Staples, Poultry Fence, per lb.....	.10
Clover Cutter, with stand....15.50	American Poultry Fence, a fence, not a netting—2158, per rod. 30c; 1558, per rod. ....90c.	Salt Cat.....brick 10c; doz. 1.00	
Boxes for grit and shell....1.00	Grit, Crystal Granite, 3 sizes, lb. 2c; 100 lbs. ....1.25	Add 20c extra for postage.	
Caponizing Instruments (post-paid)....\$2.50, \$3.00, 4.00	Grit, Fous Health. ....lb. 3c; 100 lbs. 2.00	Thermometers, Incubator.....	.75
Cement (Tar Paint for Roofs) .....gal. 75c; 3 gal. 2.00	Gun, Jumbo Powder. ....50	Thermometers, Brooder. ....35c	.60
Coop, New Model Brood.....4.00	Grains—Corn Cracked, Canada Peas, Wheat, Buckwheat, Millet. ....	Testers, X-Ray Egg.....	.35
Charcoal, Nodi, 3 sizes, fine, medium, coarse, 2-lb. carton 15c, 50-lb. sack .....2.25	Barley Kaffir Corn, Market Prices	Trays, Pedigree Egg, per pair .....No. 2, \$4.50; No. 3 5.50	
Corn Shellers (Iron King).....1.25	Fleneta. ....lb. 2c; 100 lbs. 2.50		
Candle, Sulphur Fumigating.....20	Knives, Poultry Killing, each. ....75		
Cyphers Foods.....At Market Prices	Markers, Phila. Poultry, each. ....35		
Chick ....." " "	Nests, Wire, each. ....25		
Forcing ....." " "	Lee's Lice Killer. ....1 qt. 45c; 2 qts. 75c; 4 qts. 1.25		
Scratching ....." " "	Nests, Earthen Pigeon, 25c; doz. 2.00		
Developing ....." " "	Philadelphia Poultry Marker. ....35		
Laying Mash....." " "	Poultry Foods—		
Banner Root Cutter, No. 7.....\$6.50	Pratt's, pkg. ....30c and .60		
Fancier's Root Cutter.....1.00	Loe's Egg Maker, pkg. 35c and 2.50		
Root Cutter, Pulley and Crank, No. 26.....23.00	Powder, Lambert's Lice, 5 oz. 10c; 15 oz. 25c; 48 oz. 50c; 100 oz. ....1.00		
Root Cutter (crank only), .....9.50	Remedies, Cyphers Poultry, case complete \$2.00; single vials. ....25		
Egg Cartons (Paper), 12-egg, .....doz. 15c; 100 1.00	Rouge Cure, Conkey's....30c, 60c, 1.00		
Humpty Dumpty Egg Cases, 6 doz. size 45c; 12 doz. size....50	Roofing, Durable, 2 ply, per square. \$2.50; 3 ply. per sq. ....3.00		
Egg, Porcelain Nest, doz. ....30	Each roll contains 1 or 2 squares.		
Eggs, Medicated, doz. ....60			
Dry Mash or Chicken Chowder .....lb. 5c; 100 lbs. 4.50			
Dry Mash, "Ful-o-Pep," "Lay or Bust," Market Prices.			

# POULTRY FEEDS

We are prepared to deliver promptly everything in Poultry Feeds of highest quality at a very reasonable price.

Try our Scratch Grains, "Full of Pep," "Laying Mash," "Lay or Bust, and all Poultry Remedies, Cyphers Incubators, Brooders, etc.

"QUALITY, PRICE AND RELIABLE SERVICE" our motto.

## HARDWARE TOO!



Will Exterminate Rats and Mice from your premises in a safe, sane and sanitary manner.

NO ODORS OR SMELLS. It mummies them. No matter where they die they simply DRY UP. Positively do not smell. Rat Corn is a new and scientific discovery, and without a doubt the greatest rat destroyer in the world; the only one that kills rats without any bad, dangerous or disagreeable effects. A trial will convince you. 25c, 50c and \$1.00 per can; 6-lb. pail \$5.00 express prepaid.

## Red Wing Insect Powder

In the New Bellows. Insect Powder and Bellows combined ALL FOR TEN CENTS

RED WING is the Best Insect Powder that can be procured and once you try it you will use no other. For the destruction of Roaches, Bed-Bugs, Fleas, Moths, Ants, Flies, etc. 10c, 25c, 50c, \$1.00.

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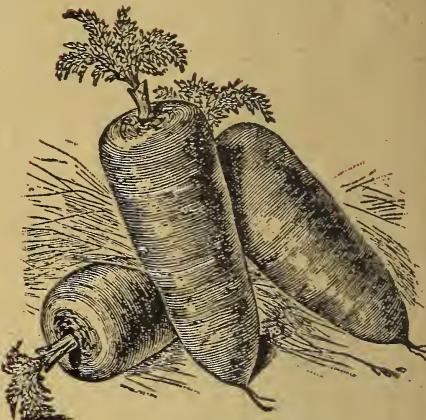
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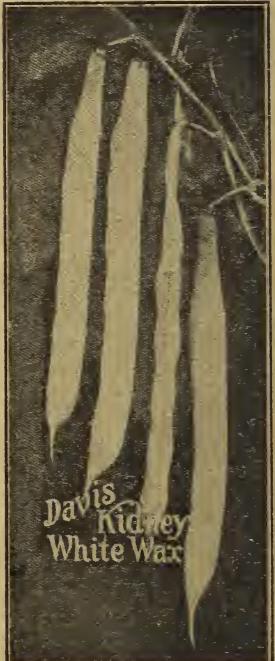
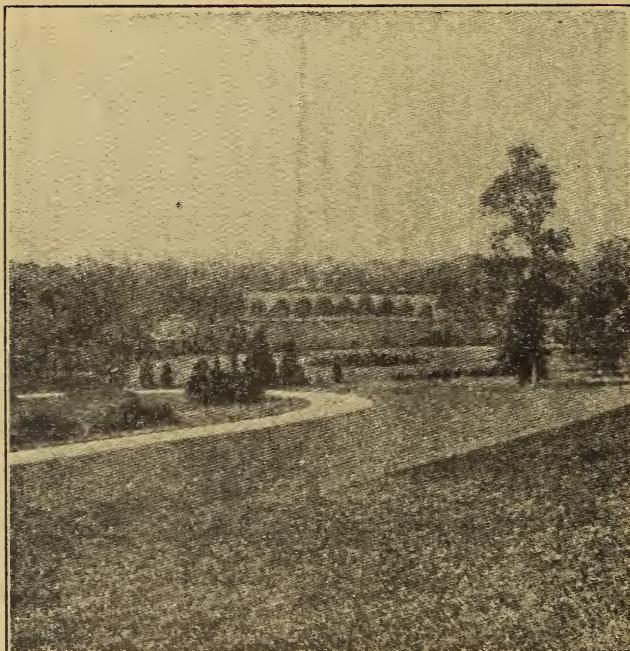
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DANVERS CARROT



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